BOREHOLE LOG

CLIENT WSP GROUP

SITE WHITFIELD

Start Date 10 February 2016

10 February 2016 End Date



WS04

Sheet 1 of 1 Scale 1:50

Depth 5.45 m

	progress date/time	sample	dept	th (m)	casing	test	samp. /core		instru -ment	description	depth	reduced	legend
	water depth	type	from	to	(m)	value	range		ment	description	(11)	(m)	
ľ	10/02/16				-					Grass over soft brown silty CLAY. Frequent rootlets.	0.05 -	-	<u> </u>
	0800hrs	1B 1ES	0.40 - 0.40 -	- 0.50 - 0.50						Soft orangish brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse flint. Frequent rootlets and roots (up to 5mm diam).			
		2B 2ES 3D 4L	1.00 - 1.00 - 1.20 - 1.20 -	- 1.10 - 1.10 - 1.65 - 2.00	– – Nil – 1.20	S 10				1.00 - 1.20m: Frequent subrounded fine to coarse chalk gravel. 1.20m: Flint cobble, recovered non intact.	1.20		
		3ES 5D 6L	1.90 - 2.00 - 2.00 -	- 2.00 - 2.45 - 3.00	2.00	S 15				Structureless CHALK composed of white gravelly SILT. Gravel is angular to subrounded fine to coarse weak medium density white locally stained light brown chalk. (Probable CIRIA Grade Dm) 1.80 - 1.90m: Locally stained yellow.			
		4ES 7D 8L	2.90 - 3.00 - 3.00 -	- 3.00 - 3.45 - 4.00	2.00 2.00 	S 27				Structureless CHALK composed of slightly sandy silty angular to subrounded fine to coarse GRAVEL. Clasts are weak medium density white with rare black specks (up to 1mm) chalk. Matrix is white locally stained yellow. (Probable CIRIA Grade Dc)	2.70		
RE		5ES 9D 10L	3.90 - 4.00 - 4.00 -	- 4.00 - 4.45 - 5.00	2.00	S 26				 4.00 - 5.00m: Fine and medium chalk gravel. 4.40 - 4.50m: Locally stained vellow. 			
2016 16:52:17 AM	10/02/16 0945hrs Dry	6ES 11D	4.90 - 5.00 -	- 5.00 - 5.45	- - - - - - - -	S 20					5.45		
34 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 09/03.										Borenole completed at 5.45m.	{8.00}		
Engineering Ltd, Tel. 01452 527743 3163	EQUIPMEN METHOD: CASING: 1 BACKFILL: EXPLORATOF	IT: Geote Hand dug 13mm di On com	echnica g inspe am to 2 pletion,	al Terrier ction pit 2.00m. , hole ba	2000 rig. 0.00-1.20 ckfilled w)m. Dyna ith bento	amic sa nite pe DN WITH	ampled ellets 5	(98mn .00-0.5 HEETS	n) 1.20-3.00m, (84mm) 3.00-4.00 and (74mm) 4.00-5.00m. Om and arisings 0.50-0.00m.			
Geotechnical	water strike	(m) casi	ng (m)	rose t	o (m) tin	ne to rise	e (min)	rema Grou	irks ndwate	er not encountered.	RACT 34	СНЕ(С	CKED

BOREHOLE LOG



CLIENT	WSP GROUP					VV	2102
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631214.9			Scale	1 : 50
End Date	11 February 2016	Northing	145145.7	Ground level	101.80mOD	Depth	5.45 m

	progress sa date/time r water depth t		dep from	th (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	11/02/16				-			/ /	Grass over soft brown silty CLAY.	0.05 -	101.75	<u></u>
	1300hrs	1B 1ES	0.40	- 0.50 - 0.50					Soft orangish brown silty CLAY with rare pockets (up to 10mm) of dark brown clay. Rare rootlets.		-	
		2B 2ES 3D 4L	1.00 1.00 1.20 1.20	- 1.10 - 1.10 - 1.65 - 2.00	– Nil – Nil – 1.20	S 5					-	
		3ES 5D 6L	1.90 2.00 2.00	- 2.00 - 2.45 - 3.00	2.00	S 8					00.20	
		4ES 7D 8L	2.90 3.00 3.00	- 3.00 - 3.45 - 4.00	- - - - - - -	S 8			Firm orangish brown slightly gravelly CLAY with frequent black specks (up to 4mm). Gravel is angular and subangular fine to coarse flint.	2.00	99.20	
RE		5ES 9D 10L	3.90 4.00 4.00	- 4.00 - 4.45 - 5.00	- - - - - - -	S 6			3.35m: Flint cobble, recovered non intact. Structureless CHALK composed of brownish white slightly gravelly SILT with abundant pockets (30mm) of brown clay and abundant black specks (up to 1mm). Gravel is angular to subrounded fine to coarse very weak to weak low and medium density white chalk. (Probable CIRIA Grade Dm)	3.50	98.30	
//2016 16:52:18 AM	11/02/16 1500hrs Dry	6ES 11D	4.90 5.00	- 5.00 - 5.45	- - - - - - - - - - - - -	S 7			3.60m: Rinded flint cobble. 3.80 - 4.00m: Mottled brown. 4.50 - 4.70m: Mottled brown. Structureless CHALK composed of white slightly sandy SILT with rare subrounded fine and medium chalk gravel and frequent black specks (up to 1mm). (Probable CIRIA Grade Dm)	4.80	97.00 96.35	
MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 09/03.									Borehole completed at 5.45m.	{8.00}		
01452 527743 31634	EQUIPMEN METHOD: CASING: 1 BACKFILL: stopcock a	NT: Geote Hand dug 13mm dia On com nd raised	echnica g inspe am to 3 pletion, I helme	al Terrier ction pit 3.00m. , a slotte et cover (2000 rig. 0.00-1.20 d standpi 0.20-0.00r)m. Dyna pe (50m m.	amic sa m) was	ampled (98m a installed to	m) 1.20-4.00m and (84mm) 4.00-5.00m. 5.00m, granular response zone 5.45-3.50m, bentonite seal 3.	50-0.20n	1, concre	te

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

BOREHOLE LOG



CLIENT	WSP GROUP					V	12100
SITE	WHITFIELD					Sheet	1 of 1
Start Date	9 February 2016	Easting	631293.2			Scale	1 : 50
End Date	9 February 2016	Northing	145220.1	Ground level	99.60mOD	Depth	5.45 m

	progress date/time	sample no &	dep	th (m)	casing depth	test type &	samp. /core	instru -ment	description	depth (m)	reduced level	legend
ľ	water depth	type	from	to	(m)	value	range				(m)	
	09/02/16 1145hrs	1B 1ES 2B 2ES 3D 4L	0.40 0.40 1.00 1.20 1.20	- 0.50 - 0.50 - 1.10 - 1.10 - 1.65 - 2.00	- - - - - - - - - - - - - - - - - - -	S 7			Grass over soft brown silty CLAY with rare angular fine to coarse flint gravel. Soft orangish brown gravelly silty CLAY. Gravel is angular to rounded fine to coarse flint.	0.15	99.45	
		3ES 5D 6L	1.90 2.00 2.00	- 2.00 - 2.45 - 3.00	2.00 	S 4			Soft becoming firm brown gravelly locally very gravelly CLAY. Gravel is angular to subrounded fine to coarse flint.			
		4ES 7D 8L 5ES	2.90 3.00 3.00	- 3.00 - 3.45 - 4.00 - 4.00	3.00	S 7			 2.70 - 3.00m: Frequent subrounded fine and medium chalk gravel. 2.70m: Cobble sized black nodular flint, recovered non intact. Structureless CHALK composed of slightly sandy silty subangular and subrounded fine to coarse GRAVEL. Clasts are medium strong medium density white with 	3.00	96.60	
2:18 AM RE	00/00//0	9D 10L 6ES	4.00 4.00	- 4.45 - 5.00	3.00	S 10			frequent black specks (up to 1mm) chalk. Matrix is white. (Probable CIRIA Grade Dc) 3.00 - 3.40m: Locally stained yellow. 3.65 - 3.70m: Stained yellow. 3.90m: Cobble sized black nodular flint. 4.55 - 4.60m: Locally stained yellow. 4.70m: Subrounded chalk cobble. 4.90m: Orange stained subangular medium flint gravel.			
IASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 09/03/2016 16:52	09/02/16 1230hrs Dry	11D	5.00	- 5.45	- 3.00	S 13			Borehole completed at 5.45m.	(8.00)	94.15	
31634 M.	EQUIPMEN METHOD:	⊥ NT: Geote Hand due	echnica g inspe	al Terrie	r 2000 rig 0.00-1.20)m. Dyna	amic sa	ampled (98m	I m) 1.20-4.00m and (84mm) 4.00-5.00m.	<u> {8.00}</u>	<u> </u>	<u> </u>

CASING: 113mm diam to 3.00m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.45-3.00m, bentonite seal 3.00-0.20m, concrete stopcock and raised helmet cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

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СТ

BOREHOLE LOG



CLIENT	WSP GROUP					W	S107
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631165.6			Scale	1 : 50
End Date	11 February 2016	Northing	145214.6	Ground level	106.65mOD	Depth	5.45 m

	progress date/time	sample no &	depth (m)	casing depth	test type &	samp. /core	instru -ment	description	depth (m)	reduced level	legend
	water depth	type	from to	(m)	value	range		Crass over soft brown silty CLAV	0.10 -	(m)	x -
	1000hrs	1B 1ES 2B 2ES 3D 4L	0.40 - 0.50 0.40 - 0.50 1.00 - 1.10 1.00 - 1.10 1.20 - 1.65 1.20 - 2.00	- - - - - - - - - - - - - - - - - - -	S 5			Soft orangish brown silty CLAY.		105.15	
		3ES 5D 6L	1.70 - 1.80 2.00 - 2.45 2.00 - 3.00	- - - - - - - - - - - - -	S 9			Soft becoming firm orangish brown locally mottled dark brown slightly gravelly CLAY. Gravel is angular fine to coarse flint. Structureless CHALK composed of slightly sandy silty angular and subangular fine to coarse GRAVEL. Clasts are weak and medium strong medium density white chalk. Matrix is white locally stained orange. (Probable CIRIA	1.95	104.70	
		4ES 7D 8L	2.90 - 3.00 3.00 - 3.45 3.00 - 4.00	- - - - - - - - - - -	S 10			 Grade Dc). 2.20m: Flint cobble, recovered non intact. 2.80m: Flint cobble, recovered non intact. 3.40 - 3.70m: Locally stained yellow. 2.65m: Pindod flint cobble. 		- - - - - - - - - -	
3 16:52:19 AM RE	11/02/16 1200hrs	5ES 9D 10L 6ES 11D	3.90 - 4.00 4.00 - 4.45 4.00 - 5.00 4.90 - 5.00 5.00 - 5.45	3.00	S 12 S 9			Structureless CHALK composed of white slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse very weak to weak low and medium density white chalk. (Probable CIRIA Grade Dm) 4.60 - 5.00m: Rare subrounded fine to coarse flint gravel.	4.00	102.65	
MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 09/03/2016		_						Borehole completed at 5.45m.	5.45 - 	101.20	
452 527743 31634	EQUIPMEI METHOD: CASING: 1 BACKFILL stopcock a	NT: Geote Hand dug 13mm di On com nd raised	echnical Terrie g inspection pi am to 3.00m. pletion, a slotte helmet cover	r 2000 rig. t 0.00-1.20 ed standpi 0.20-0.00	0m. Dyna pe (50m m.	amic sa m) was	mpled (98m installed to	n) 1.20-4.00m and (84mm) 4.00-5.00m. 5.00m, granular response zone 5.45-2.00m, bentonite seal 2.	00-0.20n	n, concre	te

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

BOREHOLE LOG



100

CLIENI	WSP GROUP					V	13100
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631218.8			Scale	1 : 50
End Date	11 February 2016	Northing	145226.0	Ground level	103.45mOD	Depth	5.45 m

progress	sample	depth (m)	casing	test	samp.	ins	tru		depth	reduced	legend
date/time	no &		depth	type &	/core	-me	ent	description	(m)	level	
water depth	type	from to	(m)	value	range					(m)	
11/02/16			-			/	/	Grass over soft brown silty CLAY.	0.05	103.40	×
0800hrs	18	0.40 - 0.50	F					Soft orangish brown silty CLAY with rare angular to		-	<u> </u>
	1ES	0.40 - 0.50	È					rounded fine to coarse flint and chalk gravel			×
			E			Ħ	F				
	2B	1 00 - 1 10	-							-	×
	2ES	1.00 - 1.10	F							-	
	3D	1.20 - 1.65	L Nil	S 4							
	4L	1.20 - 2.00	- 1.20								<u></u>
			-							-	<u> </u>
			F							-	
	3ES	1.90 - 2.00	- 200	0.7		日		1.70m: Pocket (50mm) of brown sandy CLAY.			<u> </u>
	50	2.00 - 2.45	2.00	57							
		2.00 - 3.00	F							-	
			F					2.20m: Flint cobble.		-	<u> </u>
			E					2.20 - 2.50m: Rare angular medium and coarse flint		-	×
	150	200 200	F			H		2 50 - 2 70m ⁻ Rare black specks (up to 5mm) Mottled	2.80	100.65	<u> </u>
	4E3	2.90 - 3.00	F 3.00	59		E	= [dark brown.			
	8L	3.00 - 4.00	- 0.00		\square	E E]	2.70m: Rinded flint cobble, recovered non intact.	-		- P
			E				1	Structureless CHALK composed of white slightly sandy		-	
			E			E	-	slightly gravelly SILT. Gravel is angular to subrounded fine	3.50	99.95	
			F			E	-	to coarse weak low density white chalk and rare flint.			
	5ES	3.90 - 4.00	F				-	(Probable CIRIA Grade Dm)			
	9D	4.00 - 4.45	3.00	S 31				3.20 - 3.50m: Locally stained yellow.		-	
	10L	4.00 - 5.00	F			E		Structureless CHALK composed of slightly sandy silty		-	
			F				-	subangular to rounded fine to coarse GRAVEL. Clasts are			┝┯┶┯┙
			F			E	=	weak medium density white locally with frequent black	4.55	98.90	
			E			E E	=	Specks (up to 1mm) chalk. Matrix is white. (Probable			
			E			E		3 70 - 3 80m ⁻ Rare angular coarse flint gravel			
4.4/00/40	6ES	4.90 - 5.00	-	0.40	⊢i–				-	-	
11/02/16 1000hrs	11D	5.00 - 5.45	3.00	S 12				Structureless CHALK composed of white with frequent		-	
Dry			E					angular to subrounded fine to coarse very weak low	5.45	98.00	
	1		E					density white chalk. (Probable CIRIA Grade Dm)			
			-					4.55 - 4.60m: Band of dark orange gravelly coarse sand.		-	
			F					Gravel is angular fine and medium flint.		-	
			<u> </u>					Borehole completed at 5.45m.			
			E								
			-							-	
			F							-	
			È								
			L								
			F							-	
			F							-	
			F							1	
			E							1	
			F							-	
			F						10 001	-	
									{ð.00}		
EQUIPMEI	NT: Geote	echnical Terrier	2000 rig								
METHOD:	Hand dug	g inspection pit	0.00-1.20)m. Dyna	amic sa	mpled (98	3mn	n) 1.20-3.00m, (84mm) 3.00-4.00m and (74mm) 4.00-5.00m.			

CASING: 113mm diam to 3.00m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.45-2.80m, bentonite seal 2.80-0.20m, concrete stopcock and raised helmet cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) $% \left(m \right) = 0$ rose to (m) time to rise (min) remarks

Groundwater not encountered.

RE

BOREHOLE LOG



CLIENT	WSP GROUP					٧١	12103
SITE	WHITFIELD					Sheet	1 of 1
Start Date	8 February 2016	Easting	631351.7			Scale	1 : 50
End Date	9 February 2016	Northina	145320.0	Ground level	98.50mOD	Depth	5.45 m

	progress	sample	dep	th (m)	casing	test	samp.		instru		depth	reduced	legend
	date/time	no &			depth	type &	/core		-ment	description	(m)	level	
v	ater depth	type	from	to	(m)	value	range					(m)	
0	8/02/16				-					Crass over soft brown silty CLAX. Bare restlets	0.05 -	98.45	
1	315hrs				L							00.10	
		1B	0.40	- 0.50	-				ΞE	Soft orangish brown slightly gravelly silty CLAY. Gravel is	-	-	
		IES	0.40	- 0.50	F				ΞE		-	-	
		20	1 00	1 10	-						-	-	
		2ES	1.00	- 1.10	-						_		F •
		3D	1.20	- 1.65	L Nil	S 5			= =	-		1	
		4L	1.20	- 2.00	- 1.20						-	-	200
					F						-		
0	8/02/16				F				3 E		-		
	700nrs)rv	3ES	1.90	- 2.00	- 2.00	0.11		Ē			-	1	ř <u>–</u> ř–
	9/02/16	61 61	2.00	- 2.45	2.00	511			ΞE		-	1	
ŏ	800hrs		2.00	0.00	-						-	-	<u> </u>
	Dry				F				= =		2.40	96.10	
					-					Firm brown very gravelly CLAY. Gravel is angular and	-		<u> </u>
		4FS	2 90	- 3 00	-					subangular fine to coarse filnt.	-	1	
		7D	3.00	- 3.45	3.00	S 6					- 10-	05 40	
		8L	3.00	- 4.00	-				H		3.10	95.40	
					F				H	Structureless CHALK composed of white gravely SILI.	-		
					F					medium density white locally stained orangish brown	-		$ r_{\mu} r$
					-				日	chalk. (Probable CIRIA Grade Dm).			
		5ES	3.90	- 4.00	-	0.40			目	3.55m: Rinded flint cobble.	3.90 -	94.60	
			4.00	- 4.45	3.00	S 10	\vdash		目	3.80m: Flint cobble, recovered non intact.		-	
		9L	4.00	- 5.00	-			ŀ	E.	Structureless CHALK composed of slightly sandy silty	-	1	
ή					F				H	subangular and subrounded fine to coarse GRAVEL.	-	1	
-					È.				目	Clasts are weak medium density white locally with	-		┝┎╖┎
A					È.					(Probable CIRIA Grade Dc)	-		
07		6ES	4.90	- 5.00	_				日	4.10m: Flint cobble, recovered non intact.	-	1	
8 0	9/02/16	10D	5.00	- 5.45	3.00	S 8				4.90m: Flint cobble.	-		
92 0 0	1930hrs Drv				-						- AF -	02.05	┝╹┍╹
	, y				E .						5.45 -	93.05	
/03/										Borehole completed at 5.45m.	-		
60					E						-		
Я-I: F					_						_		
HZ.					-						-	1	
С. С					È.								
2 2					E							1	
5					F							4	
r 5					F						-	-	
НР,					F						-	1	
					Ę							1	
<u>+</u>					F							1	
j j					F						-	4	
Y.					-						-	1	
2					È.							1	
₹ F											{8.00}		
103	EQUIPMEN	IT: Geote	echnica	al Terrier	2000 rig								
°	METHOD:	Hand dug	g inspe	ction pit	0.00-1.20)m. Dyna	amic sa	ampled	(98m	m) 1.20-4.00m and (84mm) 4.00-5.00m.			
3	CASING: 1	13mm di	am to 3	3 00m									

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.45-3.00m, bentonite seal 3.00-0.20m, concrete stopcock and raised helmet cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

BOREHOLE LOG



CLIENT	WSP GROUP					۷۱	12110
SITE	WHITFIELD					Sheet	1 of 1
Start Date	9 February 2016	Easting	631249.5			Scale	1 : 50
End Date	9 February 2016	Northing	145306.6	Ground level	104.40mOD	Depth	5.45 m

progress date/time	sample no &	dep	th (m)	casing depth	test type &	samp. /core	ins -m [,]	stru ent	description	depth (m)	reduced level	legend
water depth	type	from	to	(m)	value	range					(m)	
09/02/16 1330hrs	1B 1ES	0.40 - 0.40 -	- 0.50 - 0.50						Grass over soft brown silty CLAY. Rare rootlets.	0.10	104.30	
	2B 2ES 3D 4L	1.00 · 1.00 · 1.20 · 1.20 ·	- 1.10 - 1.10 - 1.65 - 2.00	- Nil - Nil - 1.20	S 6					1.60	102.80	
	3ES 5D 6L	1.90 - 2.00 - 2.00 -	- 2.00 - 2.45 - 3.00	2.00	S 5				Firm brown gravelly CLAY. Gravel is angular to subrounded fine to coarse flint. 1.90 - 2.00m: Slightly gravelly. Structureless CHALK composed of slightly sandy silty	2.00	102.40	
	4ES 7D 8L	2.90 - 3.00 - 3.00 -	- 3.00 - 3.45 - 4.00	- - - - - 3.00	S 8				subangular to rounded fine to coarse GRAVEL. Clasts are weak low and medium density white with frequent black specks (up to 2mm) chalk. (Probable CIRIA Grade Dc). 2.20m: Rinded flint cobble, recovered non intact. 3.20m: Rinded flint cobble, recovered non intact.			
	5ES 9D 10L	3.90 - 4.00 - 4.00 -	- 4.00 - 4.45 - 5.00	3.00	S 11				3.60m: Subrounded chalk cobble. 3.70m: Subrounded chalk cobble.		- - - - -	
09/02/16 1530hrs Dry	6ES 11D	4.90 - 5.00 -	- 5.00 - 5.45	- 3.00	S 14				4.50 - 4.70m: Rare subrounded medium flint gravel. 4.80 - 4.90m: Locally stained yellow.	5.45	98.95	
									Borehole completed at 5.45m.	{8.00}		
EQUIPMEN METHOD: CASING: 1 BACKFILL: stopcock a	NT: Geote Hand dug 13mm di : On com nd raisec	echnica g inspe am to 3 pletion, t helme	al Terrier ction pit 3.00m. , a slotte et cover (2000 rig. 0.00-1.20 d standpi 0.20-0.00)m. Dyna)pe (50m m.	amic sa m) was	ampled (98 a installed	8mn to १	n) 1.20-4.00m and (84mm) 4.00-5.00m. 5.00m, granular response zone 5.45-2.00m, bentonite seal 2.	00-0.20r	n, concre	te

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) $% \left(m \right) = 0$ rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

RE

BOREHOLE LOG



111

CLIENT	WSP GROUP					VVC	
SITE	WHITFIELD					Sheet	1 of 1
Start Date	9 February 2016	Easting	631312.7			Scale	1 : 50
End Date	9 February 2016	Northing	145354.5	Ground level	101.70mOD	Depth	5.45 m

progress date/time	sample no &	dep	th (m)	casing depth	test type &	samp. /core	instru -ment	description	depth (m)	reduced level	legend
water depth	type	from	to	(m)	value	range				(m)	<u> </u>
09/02/16 0930hrs	1B	0.40	- 0 50	-				Grass over soft brown silty CLAY with rare angular coarse fiint gravel.	0.10	101.60	× ×
	1ES	0.40	- 0.50	-				Soft orangish brown silty CLAY.	-		×
	2B 2ES	1.00	- 1.10	Ē					-	-	×
	3D	1.20	- 1.65	Nil	S 4				1.20	100.50	×
	4L	1.20	- 2.00	E 1.20				fine to coarse flint.	1.50	100.20	
	3ES 5D 6L	1.90 2.00 2.00	- 2.00 - 2.45 - 3.00	2.00	S 5			Structureless CHALK composed of brownish white slightly sandy slightly gravelly SILT. Gravel is subangular and subrounded fine to coarse very weak and weak low density white chalk. (Probable CIRIA Grade Dm). 1.80 - 1.85m: Mottled brown.	1.90	99.80	
	4ES 7D 8L	2.90 3.00 3.00	- 3.00 - 3.45 - 4.00	- - - - - - -	S 9			Structureless CHALK composed of slightly sandy silty subangular to rounded fine to coarse GRAVEL. Clasts are weak medium density white locally with frequent black specks (up to 1mm) chalk. Matrix is white. (Probable CIRIA Grade Dc) 2.50 - 2.60m: Rare subrounded medium flint gravel. 2.75 - 2.80m: Locally stained yellow.			
	5ES 9D 10L	3.90 4.00 4.00	- 4.00 - 4.45 - 5.00	3.00	S 11			3.70m: Subrounded chalk cobble. 3.90 - 4.00m: Locally stained yellow.	4.20	97.50	
₩	6ES 11D	4.90 5.00	- 5.00 - 5.45	3.00	S 16			slightly gravelly SILT. Gravel is subangular and subrounded fine to coarse very weak low density white chalk. (Probable CIRIA Grade Dm) 4.40m: Flint cobble, recovered non intact. 4.90 - 5.00m: Yellowish white.	5 45	96.25	
	-							Borehole completed at 5.45m.			
									{8.00}	-	
METHOD:	Hand du	g inspe	ction pit	2000 rig. 0.00-1.20)m. Dyna	amic sa	impled (98mr	n) 1.20-4.00m and (84mm) 4.00-5.00m.			

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.45-1.50m, bentonite seal 1.50-0.20m, concrete stopcock and raised helmet cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

BOREHOLE LOG



CLIENT	WSP GROUP					٧١	/5112
SITE	WHITFIELD					Sheet	1 of 1
Start Date	8 February 2016	Easting	631375.4			Scale	1 : 50
End Date	8 February 2016	Northing	145432.1	Ground level	99.30mOD	Depth	5.45 m

	progress	sample	de	pth	(m)	casir	ig h	test	samp.	instru	description	depth	reduced	legend
	water depth	type	fror	n	to	(m)		value	range	-ment	description		(m)	
	08/02/16 1015hrs	1B 1ES	0.4 0.4	0 - 0 0 - 0).50).50	- - - -					Grass over soft brown silty CLAY.	0.10	99.20	
		2B 2ES 3D 4L 3ES	1.0 1.0 1.2 1.2) - 1) - 1) - 1) - 2 0 - 2	.10 .10 .65 2.00	- - - - - - - - - -	Vil 20	S 4			Structureless CHALK composed of brownish white gravelly SILT. Gravel is subangular and subrounded fine to coarse very weak low density white locally with frequent black specks (up to 1mm) chalk. (Probable CIRIA Grade Dm).	- 1.00 _ - - - - - -	98.30	
		5D 6L	2.0) - 2) - 3	45 00	2.0 	00	S 9			 1.30 - 1.40m: Flint cobble, recovered non intact. 1.55m: Rinded flint cobble. 1.65m: Subangular chalk cobble. 2.20 - 2.40m: Locally stained yellow. 2.30m: Rinded flint cobble. 	2.50	96.80	
		4ES 7D 8L	2.9 3.0 3.0) - 3) - 3) - 4	.00 .45 .00	- - - - -	00	S 28			Structureless CHALK composed of slightly sandy silty subrounded and rounded fine to coarse GRAVEL. Clasts are weak low and medium density white with rare black specks (up to 1mm) chalk. Matrix is white. (Probable CIRIA Grade Dc)	3.35	95.95	
		5ES 9D 10L	3.9 4.0 4.0) - 4) - 4) - 5	.00 .45 .00	- - - - 3.(00	S 13			Structureless CHALK composed of white slightly gravelly SILT. Gravel is subrounded fine and medium very weak low density white chalk. (Probable CIRIA Grade Dm) 3.35 - 3.40m: Flint cobble, recovered non intact.	3.60	95.70	
116 16:52:23 AM RE	08/02/16 1215hrs Dry	6ES 11D	4.9 5.0	0 - 5 0 - 5	i.00 i.45	- - - - - - 3.0	00	S 11			rounded fine to coarse GRAVEL. Clasts are weak low and medium density white with rare black specks (up to 1mm) chalk. Matrix is white. (Probable CIRIA Grade Dc) 3.80 - 4.00m: Rare black specks (up to 2mm). 4.30 - 4.60m: Locally stained yellow.	5.45	93.85	
JH.GPJ GEOTECH2.GLB 09/03/20											Borehole completed at 5.45m.			
634 MASTER.GPJ TRIAL	EQUIPMEN	NT: Geote	echni	cal	Terrier	2000	rig.					- - - - - - - - - - - - - - - - - - -		

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (98mm) 1.20-4.00m and (84mm) 4.00-5.00m.

CASING: 113mm diam to 3.00m.

BACKFILL: On completion, a slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.45-1.00m, bentonite seal 1.00-0.20m, concrete stopcock and raised helmet cover 0.20-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.



CLIENT WSP GROUP

SITE WHITFIELD

notes

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31634 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 9/3/16

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011

2. N values have not been subjected to any correction.

3. Test carried out using split spoon S, solid cone C.

4. Where full test drive not completed, linearly extrapolated N value reported.

5. <1 Denotes hammer self weight penetration (sank under own weight).

6. ** Denotes no effective penetration.



CLIENT WSP GROUP

SITE

WHITFIELD

borehole	borehole	bottom	casing	water	seatin	g drive	test	drive	test		energy
no.	depth (m)	depth (m)	depth (m)	level (m)	blows	pen (mm)	blows	pen (mm)	type	N	ratio (%)
	()	(11)	()	(,		()		()			(/0)
BH03	15.30	15 65	4 20	7 65	7 11	75 75	13 17 20	75 75 50	C	75	75
Dirioo	10.00	10.00	4.20	-			10 17 20		0		
WS01	1.20	1.65	Nil	Dry	1 1	75 75	1 1 1 1	75 75 75 75	S	4	75
WS01	2.00	2.45	2.00	Dry	1 0	75 75	0 0 0 1	75 75 75 75	S	1	75
WS01	3.00	3.45	2.00	Dry	13	75 75	3 1 1 1	75 75 75 75	S	6	75
WS01	4.00	4.45	2.00	Dry	0 0	75 75	0 0 0 1	75 75 75 75	S	1	75
WS01	5.00	5.45	2.00	Dry	22	75 75	2 2 1 1	75 75 75 75	S	6	75
WS03	1.20	1.65	Nil	Dry	53	75 75	2 2 1 2	75 75 75 75	S	7	75
WS03	2.00	2.45	2.00	Dry	1 1	75 75	2 2 3 3	75 75 75 75	S	10	75
WS03	3.00	3.45	2.00	Dry	22	75 75	2 1 2 6	75 75 75 75	S	11	75
WS03	4.00	4.45	2.00	Dry	65	75 75	4 4 2 3	75 75 75 75	S	13	75
WS03	5.00	5.45	2.00	Dry	56	75 75	4 3 4 4	75 75 75 75	S	15	75
WS04	1.20	1.65	Nil	Dry	4 3	75 75	3 2 2 3	75 75 75 75	S	10	75
WS04	2.00	2.45	2.00	Dry	23	75 75	4 4 4 3	75 75 75 75	S	15	75
WS04	3.00	3.45	2.00	Dry	78	75 75	7767	75 75 75 75	S	27	75
WS04	4.00	4.45	2.00	Dry	68	75 75	10 5 6 5	75 75 75 75	S	26	75
WS04	5.00	5.45	2.00	Dry	66	75 75	5 5 5 5	75 75 75 75	S	20	75
WS105	1.20	1.65	Nil	Dry	0 1	75 75	1 1 1 2	75 75 75 75	S	5	75
WS105	2.00	2.45	2.00	Dry	1 1	75 75	2 2 2 2	75 75 75 75	S	8	75
WS105	3.00	3.45	3.00	Dry	12	75 75	2222	75 75 75 75	S	8	75
WS105	4.00	4.45	3.00	Dry	1 1	75 75	1 1 2 2	75 75 75 75	S	6	75
WS105	5.00	5.45	3.00	Dry	34	75 75	2 1 2 2	75 75 75 75	S	7	75
WS106	1.20	1.65	Nil	Dry	1 1	75 75	1 2 2 2	75 75 75 75	S	7	75
WS106	2.00	2.45	2.00	Dry	12	75 75	1 1 1 1	75 75 75 75	S	4	75
WS106	3.00	3.45	3.00	Dry	33	75 75	2 2 1 2	75 75 75 75	S	7	75
notes:											
1. Test car	ried out in g	eneral acco	rdance with	BS EN ISC	22476-3:200	05 + A1:2011					

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3. Test carried out using split spoon S, solid cone C.

4. Where full test drive not completed, linearly extrapolated N value reported.

5. <1 Denotes hammer self weight penetration (sank under own weight).

6. ** Denotes no effective penetration.

СТ



CLIENT WSP GROUP

SITE WHITFIELD

borehole	borehole	bottom	casing	water	seatin	g drive	test d	Irive	test		energy
no.	depth (m)	depth (m)	depth (m)	level (m)	blows	pen (mm)	blows	pen (mm)	type	N	ratio (%)
	()	()	()	()				()			()
WS106	4.00	4.45	3.00	Dry	4 3	75 75	2 3 3 2	75 75 75 75	S	10	75
WS106	5.00	5.45	3.00	Dry	24	75 75	3 3 3 4	75 75 75 75	S	13	75
WS107	1.20	1.65	Nil	Dry	12	75 75	1 1 1 2	75 75 75 75	S	5	75
WS107	2.00	2.45	2.00	Dry	12	75 75	2 2 2 3	75 75 75 75	S	9	75
WS107	3.00	3.45	3.00	Dry	43	75 75	3 2 2 3	75 75 75 75	S	10	75
WS107	4.00	4.45	3.00	Dry	33	75 75	2 4 3 3	75 75 75 75	S	12	75
WS107	5.00	5.45	3.00	Dry	33	75 75	2322	75 75 75 75	S	9	75
WS108	1.20	1.65	Nil	Dry	12	75 75	1 1 1 1	75 75 75 75	S	4	75
WS108	2.00	2.45	2.00	Dry	2 1	75 75	2 2 1 2	75 75 75 75	S	7	75
WS108	3.00	3.45	3.00	Dry	22	75 75	2223	75 75 75 75	S	9	75
WS108	4.00	4.45	3.00	Dry	23	75 75	3 4 13 11	75 75 75 75	S	31	75
WS108	5.00	5.45	3.00	Dry	4 4	75 75	3 3 3 3	75 75 75 75	S	12	75
WS109	1.20	1.65	Nil	Dry	1 1	75 75	1 2 1 1	75 75 75 75	S	5	75
WS109	2.00	2.45	2.00	Dry	4 4	75 75	3 3 3 2	75 75 75 75	S	11	75
WS109	3.00	3.45	3.00	Dry	22	75 75	1 1 2 2	75 75 75 75	S	6	75
WS109	4.00	4.45	3.00	Dry	42	75 75	2233	75 75 75 75	S	10	75
WS109	5.00	5.45	3.00	Dry	1 1	75 75	2 1 2 3	75 75 75 75	S	8	75
WS110	1.20	1.65	Nil	Dry	12	75 75	2 2 1 1	75 75 75 75	S	6	75
WS110	2.00	2.45	2.00	Dry	2 1	75 75	1 1 1 2	75 75 75 75	S	5	75
WS110	3.00	3.45	3.00	Dry	23	75 75	3 1 2 2	75 75 75 75	S	8	75
WS110	4.00	4.45	3.00	Dry	22	75 75	2 2 3 4	75 75 75 75	S	11	75
WS110	5.00	5.45	3.00	Dry	45	75 75	4 3 3 4	75 75 75 75	S	14	75
WS111	1.20	1.65	Nil	Dry	2 1	75 75	1 1 1 1	75 75 75 75	S	4	75
WS111	2.00	2.45	2.00	Dry	1 1	75 75	1 2 1 1	75 75 75 75	S	5	75
notoo:											

not

Geotechnical Engineering Ltd, Tel. 01452 527743 31634 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 9/3/16

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011

2. N values have not been subjected to any correction.

3. Test carried out using split spoon S, solid cone C.

4. Where full test drive not completed, linearly extrapolated N value reported.

5. <1 Denotes hammer self weight penetration (sank under own weight).

6. ** Denotes no effective penetration.

СТ



CLIENT WSP GROUP

SITE WHITFIELD

borehole no.	borehole depth	bottom depth	casing depth	water level	seatin blows	g drive pen	test blows	drive pen (mm)	test type	Ν	energy ratio
	(111)	(11)	(11)	(11)		(11111)		((((((((((((((((((((((((((((((((((((((((70)
WS111	3.00	3.45	3.00	Dry	1 1	75 75	1224	75 75 75 7	75 S	9	75
WS111	4.00	4.45	3.00	Dry	23	75 75	3 3 2 3	75 75 75 7	75 S	11	75
WS111	5.00	5.45	3.00	Dry	43	75 75	3 3 4 6	75 75 75 7	75 S	16	75
WS112	1.20	1.65	Nil	Dry	1 1	75 75	1 1 1 1	75 75 75 7	75 S	4	75
WS112	2.00	2.45	2.00	Dry	2 1	75 75	2 3 2 2	75 75 75 7	75 S	9	75
WS112	3.00	3.45	3.00	Dry	33	75 75	7 11 5 5	75 75 75 7	75 S	28	75
WS112	4.00	4.45	3.00	Dry	33	75 75	3 4 3 3	75 75 75 7	75 S	13	75
WS112	5.00	5.45	3.00	Dry	54	75 75	3 3 2 3	75 75 75 7	75 S	11	75
notes: 1 Test car	ried out in a	eneral acco	rdance with	BS EN ISC) 22476-3:20	05 + A1·2011					
2. N values	s have not b	een subject	ed to any co	orrection.	22110 0.20						
4. Where f	ull test drive	not comple	ted, linearly	extrapolate	ed N value re	ported.		C	ONTRACT	CHE	ECKED
 <1 Denotes hammer self weight penetration (sank under own weight). ** Denotes no effective penetration. 							31634		СТ		



CLIENT	WSP GROUP						IN01
SITE	WHITFIELD					Sheet	1 of 1
Start Date	10 February 2016	Easting	631408.9			Scale	1 : 25
End Date	10 February 2016	Northing	145491.1	Ground level	97.70mOD	Depth	2.00 m

[water		sample/te	est				depth	level	
	record	no/type	result	depth (m)		description		(m)	(m)	legend
-					Grass over soft brown slightly g	gravelly sandy CLAY. Gravel is subangu	llar and			
					Structureless CHALK compose	ed of white and light grey slightly gravel		0.20	97.50	
					Gravel is subrounded and suba	angular fine and medium weak low dens	sity white	-		
					with rare angular coarse flint. (CIRIA Grade Dm)		-		
								-	-	
								-	-	
								-	-	
								_		
								-	-	
								-	-	
		1B		1.50				-		
								-		
								-		
								_		
	Day				Trial ait as malated at 2,00m			2.00	95.70	
	Diy				That pit completed at 2.00m.					
СT										
g										
:49 (
16:52										
2016										
9/03/2										
ю Д										
42.GI										
TEC										
GEO										
GРJ										
LJH.(
TRIA										
GР										
TER.										
MAS	Notes	I		<u> </u>	1	Sketch of Foundation - Not to se	cale. All dime	ensions	in metre	es.
31634										
e e	Trial pit exc	avated by	JCB 3CX	mechanical	excavator.					
2774	Trial pit side	es remaine	ed stable	and vertical.						
452 5	Trial pit dim	ensions 0	.55.x2.00	x1.80m.						
el. 01	Trial pit use	d for soak	away test	from 1.25m t	to 1.90m h materials arising					
td, T€			a pit was	Saukilleu Wi	a materiais anomy.					
ring L										
gineer										
al Enç										
chnicé							CONTR	ACT	CHE	CKED
ieotec										.
U	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS	AUD	3163	54	C	;



CLIENT	WSP GROUP						IN02
SITE	WHITFIELD					Sheet	1 of 1
Start Date	9 February 2016	Easting	631386.4			Scale	1 : 25
End Date	9 February 2016	Northing	145369.8	Ground level	97.55mOD	Depth	2.95 m

	water		sample/te	est		description		depth	level	logond
	record	no/type	result	depth (m)		description		(m)	(m)	legenu
	water record	no/type	sample/te	est depth (m)	Grass over soft brown slightly g subrounded fine and medium fi Soft light brown slightly gravelly fine to coarse flint.	description gravelly sandy CLAY. Gravel is suban int and rare chalk. Frequent rootlets. / sandy CLAY. Gravel is subangular a	gular and nd angular	depth (m) 0.20 _ - - - - - - - - - - - - - - - - - - -	level (m) 97.35	
ER.GPJ TRIALJH.GPJ GEOTECH2.GLB 09/03/2016 16:52:49 OG CT	Dry	18		2.50	Trial pit completed at 2.95m.				94.60	
eotechnical Engineering Ltd, Tel. 01452 527743 31634 MAST	Notes Trial pit exc Groundwate Trial pit side Trial pit dim Trial pit use On complet	avated by er not encc es remaine ensions 0 d for soak ion, the tri	8 tonne t ountered. ed stable : .70.x2.95: away test al pit was	racked mecha and vertical. x2.80m. t from 2.05m t backfilled wit	anical excavator. to 2.95m h materials arising.	Sketch of Foundation - Not to	scale. All dim	ensions	in metre	PS. CKED
0	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS		516	54	U	



CLIENT	WSP GROUP						IN03
SITE	WHITFIELD					Sheet	1 of 1
Start Date	12 February 2016	Easting	631467.1			Scale	1 : 25
End Date	12 February 2016	Northing	145332.7	Ground level	97.55mOD	Depth	2.50 m

[water sample/test	est	de contration	deperintion					
	record	no/type	result	depth (m)	description	(m)	(m)	legend	
					Grass over soft brown slightly gravelly silty CLAY. Gravel is angular and subangular fine to coarse flint and chalk.		07.05	×	
					Structureless CHALK composed of white and light grey slightly gravelly SILT	0.20	97.35		
					Gravel is subrounded and subangular fine and medium very weak low density	-	1	┝╖╹╖╢	
					white with rare angular coarse flint. (CIRIA Grade Dm)	-	-		
						-	1		
						-	1		
						-	1		
						-			
						-	1	┝┲┖┲┦	
]		
							-		
							-		
					1.50 - 2.50m: Rare angular and subangular rinded flint gravel.		-	┝┲╹┲╹	
							-		
							-		
						-	-		
		1B		2.00		-	1		
				2.00		-	-		
ст						-	1		
Ċ						-	1		
0 00						2.50	95.05		
:52:5	Dry				Trial pit completed at 2.50m.				
6 16									
3/201									
20/60									
B									
9.9 4									
TEC									
GEO									
Ъ									
DH.G									
SIAL.									
Ĕ									
GP									
STEF									
1 MA	Notes		-		Sketch of Foundation - Not to scale. All	limensions	in metre	es.	
1634									
e	Trial pit exc	avated by	8 tonne t	racked mecha	inical excavator.				
7743	Groundwate	er not enco	ountered.						
2 52	Trial pit side	ensione 0	65 x2 50	anu vertical. x2 45m					
0145	Trial pit use	d for soak	away test	t from 1.47m 1	o refusal at 2.50m				
Tel. (On complet	ion, the tri	al pit was	backfilled wit	h materials arising.				
Ltd,									
ing									
ginee									
Ευć									
nica					CON	TRACT	CHE	CKED	
otect									
Ge					AGS 31	634	C	T	
	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU				-	



CLIENT	WSP GROUP						IN04
SITE	WHITFIELD					Sheet	1 of 1
Start Date	12 February 2016	Easting	631490.6			Scale	1 : 25
End Date	12 February 2016	Northing	145326.2	Ground level	99.30mOD	Depth	2.50 m

record nobje result depth (m) catagram (m)	water sample/test	de contration	depth	level	Innerd				
1B 2.00 1B 2.00 1B 2.00 Trail pit completed at 2.50m. 0.5 0 ty 120 - 1.30m. Frequent angular and subangular inded filmt gravelly sit. 1B 2.00 1B 2.00 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravelly sit. 1B 2.00 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1D 120 - 1.30m. Frequent angular and subangular inded filmt gravel. 1100 - 1.00m. Frequent angular and subangular inded fil		record	no/type	result	depth (m)	description	(m)	(m)	legena
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CLIENT	WSP GROUP						IN05
SITE	WHITFIELD					Sheet	1 of 1
Start Date	10 February 2016	Easting	631455.9			Scale	1 : 25
End Date	10 February 2016	Northing	145183.7	Ground level	104.80mOD	Depth	2.00 m

water sample/test description		description		depth	level	legend				
	record	no/type	result	depth (m)		description		(m)	(m)	legena
					Grass over soft brown slightly g subrounded fine and medium of Structureless CHALK compose rounded fine to coarse very we chalk, rarely angular coarse flir	pravelly sandy CLAY. Gravel is subangu halk. Frequent rootlets. In dof white gravelly SILT. Gravel is subro ak low density white with frequent black t. (CIRIA Grade Dm)	llar and bunded and specks	0.30	104.50	
					Structureless CHALK compose	d of silty subangular to rounded fine to	coarse	 	103.70	
		1B		1.50	GRAVEL with a low subangula low and medium density white is light brown. Medium spaced Grade Dc)	r cobble content. Clasts are very weak a with rare black specks and orange stain bands of cobble sized rinded nodular fli	and weak ing. Matrix nt. (CIRIA			
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	Dry				Trial nit completed at 2 00m			2.00	102.80	
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34 M/	Notes					Sketch of Foundation - Not to so	ale. All dim	ensions	in metre	es.
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nical							CONTR	ACT	CHEC	
eotech										-
U	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS	AUD	3163	54	C	



CLIENT	WSP GROUP						IN06
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631429.8			Scale	1 : 25
End Date	11 February 2016	Northing	145022.7	Ground level	109.35mOD	Depth	1.95 m

[water		sample/te	est	1	depth	level	
	record	no/type	result	depth (m)	description	(m)	(m)	legend
	record	no/type	result	depth (m)	Grass over soft brown slightly gravelly sandy CLAY. Gravel is subangular ar subrounded fine and medium chalk. Frequent rootlets. Structureless CHALK composed of white and grey gravelly SILT. Gravel is subrounded and rounded fine to coarse weak medium density white with rar black specks and angular coarse flint. (CIRIA Grade Dm)	(m) Ind 0.30 re	(m) 109.05	
	Dry	1B		1.50	Trial pit completed at 1.95m.	1.95	- - - - - - - - - - - - - - - - - - -	
ASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 09/03/2016 16:52:51 0G CT								
nical Engineering Ltd, Tel. 01452 527743 31634 MA	Notes Trial pit exca Groundwate Trial pit side Trial pit dim Trial pit use On completi	avated by er not enco es remaine ensions 0 d for soak ion, the tri	8 tonne to buntered. ed stable : .7.x1.95x2 away test al pit was	racked mecha and vertical. 2.75m. from 0.98m f backfilled wit	o 1.95m h materials arising.			35.
Geotechr	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS	31634	CHEC	T



CLIENT	WSP GROUP						IN07
SITE	WHITFIELD					Sheet	1 of 1
Start Date	10 February 2016	Easting	631291.7			Scale	1 : 25
End Date	10 February 2016	Northing	145308.8	Ground level	102.20mOD	Depth	2.95 m

	water		sample/te	est	description	depth	level	legend
	record	no/type	result	depth (m)		(m)	(m)	logona
					Grass over soft brown slightly gravelly sandy CLAY. Gravel is subangular and subrounded fine and medium chalk. Rare rootlets.	0.20	102.00	
					Soft light brown slightly gravelly sandy CLAY. Gravel is subangular and angular fine to coarse flint.			
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L					Structureless CHALK composed of white and light grey gravelly SILT. Gravel is			
ы С					subrounded and rounded fine to coarse very weak low density white with frequent black specks chalk and angular coarse flint (CIRIA Grade Dm)			
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52:51		1B		2 50		-	-	
6 16:5				2.00			-	
\$/2016						-		
20/60						2.95	99 25	
GLB	Dry				Trial pit completed at 2.95m.		00.20	
CH2.								
EOTE								
5 0								
IH.GF								
RIALJ								
LT L								
ER.GF								
44 MAST.	Notes				Sketch of Foundation - Not to scale. All di	nensions	in metre	es.
3163	Trial nit ever	avated hv	8 tonne +	racked mech	nical excavator			
743	Groundwate	er not enco	ountered.					
527.	Trial pit side	es remaine	ed stable	and vertical.				
01452	Trial pit dimensions 0.70.x2.95x2.80m. Trial pit used for soakaway test from 2.10m to 2.95m		x∠.ö∪m. t from 2.10m t	o 2.95m				
Tel. (On completion, the trial pit was backfilled with materials arising.		backfilled wit	h materials arising.				
g Ltd,								
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g	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS ACCOUNTS	634	C	T
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CLIENT	WSP GROUP					11	N101
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631142.0			Scale	1 : 25
End Date	11 February 2016	Northing	145243.5	Ground level	108.80mOD	Depth	2.50 m

[water	ater sample/test			description		depth	level	legend		
-	record	no/type	result	depth (m)		description		(m)	(m)		
					Grass over soft brown slightly g	gravelly sandy CLAY. Gravel is subangu lint and rare chalk. Rare rootlets.	lar and	0.15 -	108.65	×	
					Soft light brown slightly gravelly	description is over soft brown slightly gravelly sandy CLAY. Gravel is subangular and ounded fine and medium finit and rare chalk. Rare rootlets. ight brown slightly gravely sandy CLAY. Gravel is subangular and angium and coarse flint and chalk. - 2.50m: Gravel is subrounded and subangular fine and medium chalk turn and coarse flint. pit completed at 2.50m. Ketch of Foundation - Not to scale. excavator. Om terials arising.					
					medium and coarse flint and cl	nalk.		-		<u> </u>	
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:51 00					2.40 - 2.50m: Gravel is subrout	nded and subangular fine and medium o	halk and	2.50	106.30	·····	
16:52	Dry				Trial pit completed at 2.50m.]				
2016					····· •···						
9/03/2											
ю Д											
42.GI											
TEC											
GEO											
GРJ											
LJH.(
TRIA											
Gdg											
TER.0											
34 MAS	Notes	1	L	1	1	Sketch of Foundation - Not to so	ale. All dim	ensions	in metre	es.	
316	Trial nit exc	avated by	8 tonne t	racked mech	anical excavator						
743	Groundwate	er not enco	ountered.								
527	Trial pit side	es remaine	ed stable	and vertical.							
1452	Trial pit dim	ensions 0	.70.x∠.50 awav test	x∠.≀om. t from 1.23m t	to 2.50m						
Tel. C	On complet	ion, the tri	al pit was	backfilled wit	h materials arising.						
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G	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS	AGS	3163	34	C	Т	



CLIENT	WSP GROUP					11	N102
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631216.5			Scale	1 : 25
End Date	11 February 2016	Northing	145213.0	Ground level	103.35mOD	Depth	3.00 m

	water sample/test description		depth	level	legend					
	record	no/type	result	depth (m)				(m)	level (m) - 103.15 	
					Grass over soft brown slightly g	pravelly sandy CLAY. Gravel is subangu	lar and	_	-	
					subrounded line and medium d	naik. Frequent rootiets.		0.20	103.15	
					Soft light brown slightly gravelly	v sandy CLAY. Gravel is subangular and	d angular	_		<u> </u>
					medium and coarse flint.			_		····
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								2.05-	101.30	$\overline{}$
					Structureless CHALK compose	d of white and light grey gravelly SILT.	Gravel is	-	-	
F					subrounded and rounded fine t	o coarse very weak low density white w	th rare	-	-	
Ū					black specks chalk and angula	r coarse fiint. (CIRIA Grade Dm)		-	-	
00								-	-	
2:52		40		0.50				-	-	
16:52		IB		2.50				-	-	
16 1								-	-	
3/20								-	-	
09/0								-	-	
ГB	_							3.00	100.35	<u> </u>
9.9	Dry				Trial pit completed at 3.00m.					
ШÜ										
EO-										
2										
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AL JF										
TRI										
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B.S										
ASTE										
4 M/	Notes					Sketch of Foundation - Not to so	ale. All dime	ensions	in metre	es.
3163										
<u> </u>	Trial pit exca	avated by	8 tonne t	racked mecha	anical excavator.					
7743	Groundwate	er not enco	ountered.							
2 52:	Trial pit side	ensione O		anu vertical.						
145.	Trial nit use	d for soak	away test	t from 2 05m 1	to 3.00m					
el. C	On completi	ion, the tri	al pit was	backfilled wit	h materials arising.					
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Engir										
cal E									_	
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G	EXPLORATORY	HOLE LOGS	SHOULD BE	E READ IN CONJU	NCTION WITH KEY SHEETS	AUS	3163	54	C	
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TRIAL PIT LOG



CLIENT	WSP GROUP						N103
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631193.1			Scale	1 : 25
End Date	11 February 2016	Northing	145119.0	Ground level	102.30mOD	Depth	2.90 m

water		sample/te	est		department depth level					
record	no/type	result	depth (m)		description		(m)	depth (m) level (m) 0.20 102.10 - - - <td>legena</td>	legena	
				Grass over soft brown slightly gra	velly sandy CLAY. Gravel is subangu	lar and	_			
				subrounded line and medium cha			0.20 - 11	102.10	<u> </u>	
				Soft light brown slightly gravelly sa	andy CLAY. Gravel is subangular and	d angular	-		·····	
				medium and coarse limt.			-			
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Dry				Trial pit completed at 2.90m.						
Notos					Skotch of Foundation Not to se		neione	in motre		
NULES					Sketch of Foundation - NOL 10 St	ait. All uille	1310115	mmede		
Trial pit exca	avated by	8 tonne t	racked mecha	inical excavator.						
Groundwate	er not enco	ountered.								
Trial pit side	es remaine	ed stable	and vertical.							
Trial pit dim	ensions () d for soak	. / U.XZ.90	x∠./om. from 1.85m f	o 2 90m						
On complet	ion, the tri	ial pit was	backfilled wit	h materials arising.						
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							ΔΟΤ	CHE		
						CONTR		UNE		
					AGS	3163	84	C	T	
EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS					•	

СТ



CLIENT	WSP GROUP					11	N104
SITE	WHITFIELD					Sheet	1 of 1
Start Date	11 February 2016	Easting	631277.6			Scale	1 : 25
End Date	11 February 2016	Northing	145161.0	Ground level	100.75mOD	Depth	3.30 m

	water		sample/te	est	description	depth	depth level le	
	record	no/type	result	depth (m)	description	(m)	(m)	legenu
	<u> </u>				Grass over soft brown slightly gravelly sandy CLAY. Gravel is subangular and			<u> </u>
					subrounded fine and medium chalk. Rare rootlets.	-	1	<u> </u>
						0.25	100 50	
					Soft light brown slightly gravelly sandy CLAY. Gravel is subangular and angular			===
					fine and coarse flint.			<u> </u>
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СT					Structureless CHALK composed of light grey gravelly SILT. Gravel is subround		00.00	
(D					and rounded fine to coarse very weak low density white with rare black specks		-	┝╖╵╖┦
õ					chalk and subangular and angular coarse flint. (CIRIA Grade Dm)		-	
:52							-	
6:52		1B		2.50				
6 1								
201						-		
(03)						-	1	┝┲┸┲┩
30						-	-	
GLB							-	
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ĽO						3.30	97.45	
с О	Dry				Trial pit completed at 3.30m.			
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334 N	INOTES				Sketch of Foundation - Not to scale. All	limensions	in metre	:5.
316	Trial pit ovo	avated by	8 toppo t	racked moch	nical excavator			
e	Groundwate	avaled Dy	o conne ti					
774			ad stable	and vortical				
2 52	Trial pit side			anu vertičai. vo 75m				
145;	Trial pit um	d for sock	. U.XJ.JU	10111.	o 3 30m			
ы. О		ion the tri	away iesi al nit was	hackfilled wit	h materials arising			
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Schn						IRACI	CHE	JKED
eot.						004		.
9	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU		b 34	C	,
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CLIENT	WSP GROUP					11	N105
SITE	WHITFIELD					Sheet	1 of 1
Start Date	12 February 2016	Easting	631356.7			Scale	1 : 25
End Date	12 February 2016	Northing	145252.2	Ground level	98.55mOD	Depth	3.00 m

	water		sample/te	est	description	depth	level	logond
	record	no/type	result	depth (m)	description	(m)	(m)	legenu
					Grass over soft brown silty CLAY.	0.10	98.45	
					Soft orangish brown slightly gravelly silty CLAY. Gravel is angular and			
					subrounded fine to coarse flint and rare chalk.	_		×
		sempletest depth (m) <		<u> </u>				
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					Structureless CHALK composed of grev gravelly SILT. Gravel is subrounded and		90.55	T T
					rounded fine to coarse very weak low density white with frequent black specks	-	-	┝╓╹╓╢
СТ					chalk, rarely angular coarse flint. (CIRIA Grade Dm)	-	-	
G						-	-	
53 O						-		P P
:52:5		1B		2.50		-		
6 16						_		
/201						-		
9/03]	
LB (3.00	95.55	
12.G	Dry				Trial pit completed at 3.00m.			
-ECF								
EOI								
ы С								
H.GF								
IALJ								
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GPJ								
TER.								
MAS'	Notos				Okotek of Foundation Niet to control All disc		in mater	
634 I	NOLES				Sketch of Foundation - Not to scale. All dim	ensions	mmetre	35.
31	Trial pit exca	avated bv	8 tonne t	racked mecha	inical excavator.			
743	Groundwate	r not enco	ountered.					
5277	Trial pit side	s remaine	ed stable	and vertical.				
452	Trial pit dim	ensions 0	.70.x3.00	x2.75m.	- 0.00			
ы. 01	I rial pit use	a for soak	away test	trom 2.00m t	0 3.00M			
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G	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS 316	34	C	, I



CLIENT	WSP GROUP					11	N106
SITE	WHITFIELD					Sheet	1 of 1
Start Date	12 February 2016	Easting	631371.5			Scale	1 : 25
End Date	12 February 2016	Northing	145295.4	Ground level	97.80mOD	Depth	2.50 m

	water		sample/te	est		description		depth	level	logond
	record	no/type	result	depth (m)		description		(m)	(m)	legenu
					Grass over soft brown silty CLAY			0.10	97.70	×
					Soft and firm orangish brown slig	htly gravelly silty CLAY. Gravel is ang	ular and			×
					subrounded fine to coarse flint an	nd chalk.				× –
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33 0								2.50	95.30	
52:5	Dry				Trial pit completed at 2.50m.					
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Ж. М.	Notes					Sketch of Foundation - Not to so	ale. All dim	ensions	in metre	es.
3163										
e	Trial pit exc	avated by	8 tonne t	racked mecha	anical excavator.					
743	Groundwate	er not enco	ountered.							
527	Trial pit side	es remaine	ed stable	and vertical.						
452	Trial pit dim	ensions 0	.70.x2.50	x2.70m.						
01	Trial pit use	d for soak	away test	t from 1.30m t	o 2.50m					
Tel.	On complet	ion, the tri	al pit was	backfilled wit	h materials arising.					
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	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS			-		-



CLIENT	WSP GROUP						N108
SITE	WHITFIELD					Sheet	1 of 1
Start Date	9 February 2016	Easting	631341.6			Scale	1 : 25
End Date	9 February 2016	Northing	145354.7	Ground level	100.15mOD	Depth	2.90 m

	water		sample/te	est	description	depth	level	leaend
	record	no/type	result	depth (m)		(m)	(m)	logona
					Grass over soft brown slightly gravelly sandy CLAY. Gravel is subangular and subrounded fine and medium chalk. Frequent rootlets.	0.20	99.95	
					Soft light brown slightly gravelly sandy CLAY. Gravel is subangular and angular		_	
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						1.90	98.25	
					Structureless CHALK composed of light grey gravely SILT. Gravel is subrounder and rounded fine to coarse weak low density white with rare black specks chalk	ed _	-	
					and angular coarse flint. (CIRIA Grade Dm)		-	
СТ							-	
ЭC								
2:53 (15		0.50			_	
16:52		18		2.50			-	
2016							-	
9/03/:						2.90	97.25	
ILB 0	Dry				Trial pit completed at 2.90m.			
:H2.G								
DTEC								
GEO								
I.GPJ								
ALJF								
J TR								
R.GP,								
STEF								
34 M∕	Notes				Sketch of Foundation - Not to scale. All	dimensions	in metre	es.
316;	Trial nit exca	avated hv	8 tonne t	racked mecha	nical excavator			
743	Groundwate	er not enco	ountered.					
527	Trial pit side	es remaine	ed stable	and vertical.				
01452	Trial pit use	d for soak	away test	x2.50m. t from 1.90m t	o 2.90m			
Tel. (On completi	ion, the tri	al pit was	backfilled wit	n materials arising.			
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eerinc								
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Ge	ΕΧΡΙ ΟΡΔΤΟΡΥ		SHOLILD			634	C	T
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CLIENT	WSP GROUP					11	N109
SITE	WHITFIELD					Sheet	1 of 1
Start Date	12 February 2016	Easting	631369.0			Scale	1 : 25
End Date	12 February 2016	Northing	145455.9	Ground level	101.05mOD	Depth	2.90 m

	water		sample/te	est	description	depth	level	legend
	record	no/type	result	deptn (m)	Grass over soft brown slightly gravelly sandy CLAY. Gravel is subangular and	(m) 0.10	(m)	<u> </u>
					subrounded fine and medium chalk. Frequent rootlets.		100.95	<u> </u>
					Soft light brown slightly gravelly sandy CLAY. Gravel is subangular and angular fine to coarse flint.	-		· · · ·
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						1 40	99 65	
					Structureless CHALK composed of light grey gravelly SILT. Gravel is subrounded		33.00	
					and rounded fine to coarse weak low density white with rare black specks chalk and angular coarse flint. (CIRIA Grade Dm)	_		
						-	-	
						-		
						-	-	
СТ						-		
OG						-		
52:54		1B		2.50		-	-	
6 16:5						-		
3/201						-		
3 09/0	Dry				Trial pit completed at 2.90m.	2.90 _	98.15	
12.GLI	-							
тесн								
GEO								
I.GPJ								
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J TR								
R.GP								
1ASTE								
634 N	Notes				Sketch of Foundation - Not to scale. All dim	ensions	in metre	es.
31	Trial pit exca	avated by	8 tonne t	racked mecha	anical excavator.			
27745	Groundwate Trial pit side	er not enco es remaine	ountered.	and vertical.				
452 5	Trial pit dime	ensions 0	.60.x2.90	x2.60m.				
Tel. 01	On completi	on, the tri	away test al pit was	backfilled wit	h materials arising.			
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nical					CONTR	ACT	CHE	CKED
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Ō	EXPLORATORY	HOLE LOGS	SHOULD BE	READ IN CONJU	NCTION WITH KEY SHEETS 3163	34	C	T

Γ	WSP	PARSONS WSP Parsons Brinckerhoff				2>	en (2)	er	Flev	Depth	h	STRATA				
1		Hertford, SG13 7NN Telephone: 01992 526 000	IRIAL PIT LOG	Depth	Туре	IId JId	KN/N P.P.	Wat	(mAOD)	(Thick -ness)		Descriptio	n	Legend	Geolog	Install / Backfill
	Project Whitfield		Job No 70012378	-						-	Grass over b subangular fli	rown sandy slightly gravelly CLAY nt. (TOPSOIL)	. Gravel is fine to coarse angular	to $\frac{x^{1}l_{Z}}{l_{L} + x^{1}l_{L}}$		
			10012010	-						- (0.40)				<u>11</u>	TS	
		Contraction of the second s		-					101 20	- 0.40				$\frac{I_{j}}{2}$ $\frac{N I_{j}}{2}$		
				-					101.20	- 0.40	Soft orangish	brown slightly sandy slightly grave	Ily CLAY with occasional flint		4	
			state.	-						-						
				-						-						
		A LEAN AND		-						-					-	
		E Preside U	N	1.00						-						
				-	ES					- (1.50)					- - - HD	
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GDT			W. I	_						-				 	-	
TE 1.03				-						-					-	
MPLA				-					99.70	1.90	Recovered as	s structureless CHALK composed	of white slightly clayey fine to coa	rse L	1	
SPETE			<u> </u>	2.00	B ES					-	angular to sub with rare black	prounded GRAVEL with occasiona k specks. (Seaford Chalk Formation	Il flint cobbles. Gravel is weak whi on, Grade Dc)	ite	-	
GPJ W				-						-						
ECN.0				-						-						
GINT				-						(1.10)					SECK	
FIELD	-			-						-						
WHIT				-						-					-	
02_15				-						-						
78_16				3.00	в				98.60	3.00				<u>_</u>	-	<u>buce</u>
700123				-3.00-3.10	BLK					-						
10T0	General Rema	arks d at 3.0m due to reach of excavator.	2	Length			L	.ogged	Ву		•	Client		Sheet	of 1	
-S 2 Pł			A	10/:	2.00m	1		2 round			I				511	
500 L	Shoring/Suppor	t: D	В 0.6	vviath	0.60m	ı			renei (u	101.600		E 631245 N 145126	11-02-16 11-02-16	Trial F	lole N	۱o.
VSP TF	Stability: Notes: All dimer	nsions in metres. Logs should be read in	<u>й</u> С	Orientatio	n		I	/lethod/	Plant Us	sed		Contractor	Scale	ТС	0101	
08 4	accordance with on vis	the provided Key. Descriptions are based such and manual identification.		0 deg	rees fro	om north			360	Excava	itor	Geotechnical Engineering	1:21.3		101	

	BRINCKERHOFF Unit 0, John Tath Bood				_کَ	2 3 1 2 1 2	n2) er	Elev.	Depth	ו	STRATA				
	Hertford, SG13 7NN Telephone: 01992 526 000	al pii log	Depth	Туре	ndd)	HS P.P.	(kN/r Wat	(mAOD)	(Thick -ness)		Descriptio	n	Legend	Geology	Install / Backfill
	Project	Job No 70012378							-	Grass over b subangular fli	rown sandy slightly gravelly CLAY nt. (TOPSOIL)	. Gravel is fine to coarse angular t	0 11/2 1/1		
	Whiteld	10012378	-						- (0.40)		()		NU N	TS	683
			-						-				$\frac{1}{1_j}$ $\frac{1}{\sqrt{1_j}}$		
			-					102.89	0.40	Soft orangish	brown slightly sandy slightly grave	elly CLAY with occasional flint	<u></u>		
	and the second second		-						-	cobbles. Grav	vel is fine to coarse angular to sub-	angular flint. (HEAD)		-	
	and the second second		-						-						
													<u> </u>		688
									_				 	-	
			-1.00						_						
			-1.00	ËS					-						
			-						-						
			-						-				<u> </u>		
3/16			-						(2.10)				<u> </u>	HD	
r 15/3									_						
3.GD ⁻			-						-						
TE 1.0			-						-						688
MPLA			-						-				<u> </u>		
PETE			2.00	ES					-				- <u>°,</u>	-	
J WS			-						-						
N.GP															683
IT_EC	and the second s		-						-					-	
D_GIN	Change and the second second		-					100.79	2.50) Recovered as	s structureless CHALK composed	of white slightly clayey slightly san			
TFIEL			-						-	fine to coarse white with rare	angular to subrounded GRAVEL e black specks. (Seaford Chalk Fo	with rare coarse flints. Gravel is wormation. Grade Dc)	eak		
MHI		and the second	-						-			, ,			68SF
02_15									- (0.60)					SECK	
3_16_									_					-	
01237			-	В				100.19	3.10						640£
LO 70	General Remarks		L ength				ogged	Bv	_		Client		Sheet		
PHO	Hole terminated at 3.1m due to reach of excavator.	2	Longin	2.00m				_, R	ae Dunr	ı	Halsburg	y Homes	1	of 1	
5 LS 2		<u>A</u>	Width				Ground	Level (n	ו AOD))	Co-Ordinates (NGR)	Date 11-02-16			
P LOG	Shoring/Support:	В 0.6		0.60m					103.288		E 631200 N 145173	11-02-16	I rial F	Iole N	10.
VSP T	Stability: Notes: All dimensions in metres. Logs should be read in	Ċ	Orientatio	n			Method	Plant U	sed		Contractor	Scale	TC	102	,
08 M	accordance with the provided Key. Descriptions are based on visual and manual identification.	~	45 deg	grees fro	m nor	th		360	Excava	ator	Geotechnical Engineering	1:21.3		102	

	WSP	PARSONS WSP Parsons Brinckerhoff				<u>ک</u>	en (2) m2)	er	Elev.	Depth		STRATA			
		Hertford, SG13 7NN Telephone: 01992 526 000	IRIAL PIT LOG	Depth	Type 🗮	udd)		Wat	(mAOD)	(Thick -ness)		Description	ı	Legend Geolog	Install / Backfill
	Project Whitfield		Job No 70012378	-						- (0.30)	Grass over br subangular flir	rown sandy slightly gravelly CLAY. nt. (TOPSOIL)	Gravel is fine to coarse angular to	$ 0 \qquad \underbrace{\frac{\sqrt{1/2}}{1/2} \frac{\sqrt{1/2}}{\sqrt{1/2}}}_{TS} \qquad TS $	
				-					100 52	- 0.30				<u>NU</u> NU	
				-					100.32	- - -	Soft orangish cobbles. Grav	brown slightly sandy slightly grave rel is fine to coarse angular to suba	lly CLAY with occasional flint Ingular flint. (HEAD)		
				- - -	в					- - -					
				- 1.00 	ËS					- -					
33.GDT 15/3/16				-						- - (2.60) -					
PETEMPLATE1.0				- - 2.00	ES					- -	2.00 Becomin	ig firm to stiff CLAY.			
T_ECN.GPJ WS		has the second		-						- - -					
WHITFIELD_GIN	Constant of the second		A CON	2.50 -	В					-					
16_02_15				-					97.92	2.90	Possible surfa	ace of the chalk revealed, not suffic	cient recovery to prove.		
70012378_	307			-						-					
2 РНОТО	General Rema Hole terminated	arks I at 2.9 due to reach of excavator.	2►	Length	2.00m		Lo	ogged	By Ra	ae Dunn		Client Halsbury	Homes	Sheet 1 of 1	1
ST 901 c	Shoring/Support	t. D	A B 0.6	Width	0.60m		G	round	Level (m 1	AOD) 00.823		Co-Ordinates (NGR) E 631254 N 145187	Date 11-02-16 11-02-16	Trial Hole I	No.
08 WSP TF	Stability: Notes: All dimer accordance with on vis	isions in metres. Logs should be read in the provided Key. Descriptions are based sual and manual identification.	C N	Orientatior 0 degr	ees from r	north	M	ethod/	Plant Us 360	ed Excavat	tor	Contractor Geotechnical Engineering	Scale 1:21.3	TP103	6

			<u>ک</u>	2 8 8 8	ier [Elev. Dept	h	STRATA				
Hertford, SG13 7NN Telephone: 01992 526 000	Depth	Туре	IId (bbu	HS P.P.	Wat	(mAOD) (Thick -ness)		Description	ı	Legend	Geolog	Jinstall / Backfill
Project Job No Whitfield 70012378	-					(0.30)	Grass over br subangular fli	rown sandy slightly gravelly CLAY. nt. (TOPSOIL)	Gravel is fine to coarse angular to	$\frac{\underline{x}^{1} \overline{t_{z}}}{\underline{t_{z}}} \frac{\underline{x}^{1} \overline{t_{z}}}{\underline{x}^{1} \underline{t_{z}}}$	TS	
<page-header></page-header>	- - - - - - - - - - - - - - - - - - -	BES				98.67 0.3	0 Soft orangish cobbles. Grav 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	brown slightly sandy slightly grave vel is fine to coarse angular to suba	Ily CLAY with occasional flint angular flint. (HEAD)	See 1 See 2 See 3 See 3	HD	
Hole terminated at 3.0m due to reach of excavator.	Length	2.00m			-oggeu	Rae Dun	n	Halsbury	/ Homes	1	of 1	
A B 0.6 Stability	Width	0.60m	l		Ground	Level (m AOD 98.967)	Co-Ordinates (NGR) E 631339 N 145228	Date 09-02-16 09-02-16	Trial F	lole N	٩٥.
Octomy. Image: Constraint of the provided Key. Descriptions are based on visual and manual identification.	Orientatio 90 de	on grees fro	om noi	rth	Method	/Plant Used 360 Excav	ator	Contractor Geotechnical Engineering	Scale 1:21.3	TP	104	•

					<u>_</u> {	n2) en n2)	ter	Elev.	Depth	STRATA			
	Hertford, SG13 7NN Telephone: 01992 526 000	AL PIT LOG	Depth	Type	L dd SH	kN/r	Wai	(mAOD)	(Thick -ness)	Description	Legend G	eology	Install / Backfill
	Project	Job No 70012378	-						-	Grass over brown sandy slightly gravelly CLAY. Gravel is fine and medium angular to subangular flint. (TOPSOIL)	<u>71</u> 71		<u>ss</u>
		10012376	-						- (0.40)			TS	685
			-						-		$\frac{1}{1/2}$		
			-					99.65	0.40	Soft orangish brown slightly sandy slightly gravelly CLAY with occasional flint		;	
			-						-	cobbles. Gravel is fine to coarse angular to subangular flint. (HEAD)			
			-						-				<u>A</u>
			-						-				225
									-				<u>B</u> B
									_				
			1.00 - 1.00	B ES					-				
			-						-				
			-						-				<u>A</u>
9			-						-				884
15/3/1	The state of the second		-						-		<u> </u>		86
, TQ			-						-				
1.03.0			-						- (2.60)			HD	
ATE			-						-				
EMP			-						-				X
SPE1		and the second second	2.00	ES					_				
≥ P	and the second sec	1118 100 27	-						-				<u>6</u> 8
CN G			-						-				
ЦЦ		A	-						-				
D D	1	State of the second	-						-				
TFIEL			-						-				2834
MHI	and the second of the second of the	ATTEN CAR	-						-				88
02 15		Note Pa							-				
16		A CONTRACTOR	_					97.05	3.00				283
12378			3.00	в					-				
0 700	General Remarks		-					By	-	Client	ot		
РНОТ	Hole terminated at 3.0m due to reach of excavator.	2	Length	2.00m			Jygeu	Ra	ae Dunn	Halsbury Homes	l of	1	
: LS 2		A	Width			G	round	Level (m	AOD)	Co-Ordinates (NGR) Date 00-02-16			
P LOG	Shoring/Support: D	В 0.6		0.60m				. 1	00.047	E 631293 N 145254 09-02-16	Trial Ho	le N	0.
SP TF	Stability: Notes: All dimensions in metres. Logs should be read in		Orientation	ı		М	ethod/	Plant Us	ed	Contractor Scale	TD4	05	
08 V	accordance with the provided Key. Descriptions are based on visual and manual identification.	<u> </u>	0 degr	ees from	north			360	Excava	ator Geotechnical Engineering 1:21.3	IFI	03	

	BRINCKERHOFF Unit & John Toto Prod				٦Š	en V	er (Su	Elev.		STRATA		·		
	Herford, SG13 7NN Telephone: 01992 526 000	L PII LOG	Depth	Туре	ndd) IIG	HS NN/ P.P.	Wat	(mAOD) (Thick -ness)		Descriptio	n	Legend	Geology	Install Backfil
	Project	Job No						97.58 0.10	Grass over br	rown sandy CLAY. (TOPSOIL)		<u>ZI 1</u> Z <u>ZI 1</u>	TS	
	Whittield	70012378	[Soft orangish	brown sandy slightly gravelly CLA	Y with occasional flint cobbles. Gra	vel	-	<u>ASS</u>
	and the second sec											<u> </u>		<i>RBA</i>
	and the second		_											765F
	and the second		_									<u> </u>	-	669
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			-					-						28
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5/3/1	and the superior		1 50	в								<u> </u>		ABA
DT 1			-1.50	ËS				(2.90)				<u> </u>	HD	765A
03.G	the second s		-					-				<u> </u>		<u>fog</u>
VTE1.			-											
MPLA			-					-				<u> </u>	-	
ETE			-					-					-	
WSF	- Charles Participation of the second second	· · · · · · · · · · · · · · · · · · ·	-					-						
GPJ		Con 2	-					-					-	
ECN		A CA	-					-						28
JINT		222	-									<u> </u>		
ELD_0			2.50	B										<i>RES</i> A
ITFIE	and the state of the	the states	2.00									<u> </u>	-	665
WH -	The second states	1	Γ									<u> </u>	-	1990
32_15	A DE LA SANT	A Laster Sta	[
16								94.68 3.00)					
12378			-											
200								_						
HOTO	General Remarks Hole terminated at 3m due to reach of excavator.	2	Length	0.0-		1	ogged	l By		Client	(Llomon	3heet	of 1	
5 2 PI		<u>د</u>		2.00m				Kae Dunn	1	Haisbury			0. 1	
) DG L		N T	Width			0	Ground	Level (m AOD)		Co-Ordinates (NGR)	Date 08-02-16	Trial ⊦	lole N	ю.
TP L(Shoring/Support: D Stability:			0.60m			1	97.675		E 631380 N 145299	08-02-16			
WSP	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based	C T	Urientatio	n aroos fr -		rth	vietnod	360 Executo	ator		1.21 3	TP	106	
08	on visual and manual identification.		180 de	yrees If0	011110	101		JUU EXCAVA			1.21.3			

	MSP Parsons Brinckerhoff				_چَ	n2)	n2) er	Elev. Depth	<u></u>	STRATA				
	Hertford, SG13 7NN Telephone: 01992 526 000	AL PIT LOG	Depth	Туре	ndq)	KN/r P.P.	(kN/r Wat	(mAOD) (Thick -ness)		Description	1	Legend	Geology	Install / Backfill
	Project	Job No 70012378	_						Grass over b subangular fli	prown sandy slightly gravelly CLAY int. (TOPSOIL)	Gravel is fine to coarse angular to	$D \qquad \underbrace{\underline{\mathbf{x}}^{\mathbf{y}} \mathbf{J}_{\mathbf{z}}}_{(\mathbf{x},\mathbf{y}) \mathbf{z}} \underbrace{\underline{\mathbf{x}}^{\mathbf{y}} \mathbf{J}}_{(\mathbf{x},\mathbf{y}) \mathbf{z}}$		
	Whited	70012378	-					(0.30)				NU NU	TS	
			-					105.11 0.30) Soft orangish	hrown slightly sandy slightly grave	Ily CLAY with occasional flint		-	
			-					-	cobbles. Grav	vel is fine to coarse angular to suba	angular flint. (HEAD)		-	
	and the second s		-					-				<u> </u>	-	
			-					-				<u> </u>	-	
													-	
			-					-					-	
			1.00	ES				-					-	
			-					-					-	1883
			-					-					-	BOD
			-					-					-	
/3/16			[-	
DT 15	A Designed and a local sector		-					- (2.60)					HD	1888
.03.GI			-					-				<u> </u>		
ATE1			-					-					-	
EMPL			-										-	
SPET		and the second	2.00	В									-	1883
N L	and the second sec	Land I	-					-					-	
ECN.G	and the second sec		-					-					-	
INT_E			-					-					-	
ELD_G	A CALL AND A CALL	Contract of	-					-						
HITFIE	A A A A A A A A A A A A A A A A A A A													
15_WF		No. IN	-					-					-	
02_0			-					102.51 2.90) Recovered as	s structureless CHALK composed	of white slightly clayey slightly san	<u></u> tv	-	
378_16	22 A MAR LAND		3.00	В				-(0.20)	fine to coarse Gravel is wea	e subangular to subrounded GRAV	EL with occasional flint cobbles.	ade	SECK	
70012:			-3.00	ES				102.51 5.10	Dc)					
OTO	General Remarks Hole terminated at 3.1m due to reach of excavator.		Length		<u> </u>		Loggeo	i By	·	Client		Sheet		
3 2 PH	·····	2		2.00m				Rae Dunr	1	Halsbury	Homes	1	ot 1	
DG LS			Width			0	Ground	Level (m AOD)	1	Co-Ordinates (NGR)	Date 11-02-16	Trial ⊦	lole N	lo.
TPL	Shoring/Support: D D	+ z B 0.6	Orientatio	0.60m			Methor	105.410		E 631205 N 145258	Scale			
08 WSF	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.	c +	90 deg	rees fro	m nor	th		360 Excava	ator	Geotechnical Engineering	1:21.3	TP	107	

			<u>_</u> 2>	n2) en	er	Elev.	Depth	I	STRATA			
Hertford, SG13 7NN Telephone: 01992 526 000	Depth	Туре			Wat	(mAOD)	(Thick -ness)		Description	ı	Legend Geology	Install / Backfill
Project Job No								Grass over bro	own sandy CLAY. (TOPSOIL)		<u>N 1/2</u> <u>N 1/2</u>	
Whitfield 70012378	-						(0.30)				1/2 × 1/2 × TS	
	Ī					100.53	- 0.30				$\frac{\sqrt{U}}{2}$ $\frac{\sqrt{U}}{2}$	AS A
	-							Soft orangish I	brown slightly sandy CLAY with or	ccasional flint cobbles. (HEAD)		RSA
	Ī						-					6834
	-						-					683A
	Ī						-					6637
	-						-					6637
	-						-					608
	-						-					
	1.00	B					-					
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15/2	-						(2.45)					
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							_					
the first the perifer the struct of the second s	_											
	2.70	ES				98.08	2.75	Recovered as	structureless CHALK composed of	of white slightly clayey fine to coa	rse	
S AND A CARD A	2.80	ES				97.93	2.90	angular to sub	rounded GRAVEL with occasiona d Chalk Formation, Grade Dc)	I flint cobbles. Gravel is weak and		2831
	_								····,···,			
123	-						-					
	-						-		1			
Ceneral Remarks PHole terminated at 2.9m due to reach of excavator.	Length				ogged	Ву			Client	llemen	Sheet	
		2.00m				Ra	ae Dunn		Haisbury	nomes		
	Width			G	round	Level (m	AOD)		Co-Ordinates (NGR)	Date 09-02-16	Trial Hole N	
Shoring/Support:		0.60m				1	00.830		E 631301 N 145290	09-02-16		0.
Notes: All dimensions in metres. Logs should be read in	Orientatio	n		M	ethod/	Plant Us	ed		Contractor	Scale	TD108	
> Jaccordance with the provided Key. Descriptions are based on visual and manual identification.	45 deg	rees fro	m north	ו ו		360	Excava	itor	Geotechnical Engineering	1:21.3	17 100	
	_		ے آ	N SU)	n2) er	Elev. Depth		STRATA				
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Hertford, SG13 7NN Telephone: 01992 526 000	Depth	Туре	IId (build	HS WN/N	(kN/r Wat	(mAOD) (Thick -ness)		Description	ı	Legend	Geolog	Jinstall / Backfil
Project Job No Whitfield 70012378						(0.30)	Grass over br subrounded o	rown sandy slightly gravelly CLAY. of flint and chalk. (TOPSOIL)	Gravel is fine to coarse angular to	$\frac{\sqrt{J_Z}}{J_Z} \frac{\sqrt{J_Z}}{\sqrt{J_Z}}$	тѕ	
	_					100.99 0.30					2	
	-					-	Soft orangish	brown slightly sandy CLAY with or	ccasional flint cobbles. (HEAD)		-	BOS
and the second second	-					-						
	-					-					-	
	-					-						
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						_				 	-	
	- 1.00	ES				(1.50)					- HD	
	-					-					-	
	-					-					-	
3/16	_										-	
	-					-						
03.61	-										-	
	-					99.49 1.80	Structureless	CHALK composed of white slightly	y clayey slightly sandy GRAVEL w	ith	-	
	-					-	Chalk Format	tion, Grade Dc)	ith occasional black specks. (Seal		-	
	2.00	ES				-						
	-					-					-	
ECN	-					-					-	
Indiana	Ē.					- (1.20)					SECK	
	-					-					-	
HI I I I I I I I I I I I I I I I I I I	-					-					-	
	-					-						
9	-					98.29 3.00						
12378	3.00	В				-						
Ocasard Damarka	-							Olivert				
Hole terminated at 3.0m due to reach of excavator.	Length	2.00m			Logged	ГВУ Rae Dunn		Halsbury	/ Homes	Sheet 1	of 1	
	Width				Ground	Level (m AOD)		Co-Ordinates (NGR)	Date 09-02-16			
Shoring/Support: D L B 0,6		0.60m	1			101.291		E 631311 N 145333	09-02-16	Trial H	lole N	10.
Stability: Image: Constraint of the second distance of the se	Orientatio	n .			Method	/Plant Used		Contractor	Scale	ТР	2010)
> Jaccordance with the provided Key. Descriptions are based on visual and manual identification.	45 deg	grees fro	om noi	rth		360 Excava	tor	Geotechnical Engineering	1:21.3	11	103	,

	BRINCKERHOFF Use 0 John Tata Dand				<u>,</u> 2,) en (2) (2) (2)	er	Elev De	epth		STRATA				
	Hertford, SG137NN Telephone: 01992 526 000	AL PIT LOG	Depth	Туре			Wat	(mAOD) (Thi	ick ss)		Description	l	Legend	Geology	Install / Backfill
	Project	Job No						97.86 0	D.10	Grass over soft bro	own sandy slightly gravelly CL Frequent rootlets (TOPSOIL	AY. Gravel is fine to medium angu	lar $\frac{\sqrt{1/2}}{2}$ $\frac{\sqrt{1/2}}{2}$	тs	
	Whitheid	70012378						-		Soft to firm orangis	sh brown very sandy gravelly (CLAY. Gravel is fine to coarse			1884
		-						-		subangular to subro	rounded flint. (HEAD)				66S
		-						-					- <u>-</u>		
	and a second second	-						-							
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		-1.0	.00	ES				-							668
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3/16		-													
15/								-(3(00)					нп	
3.GD		-											- <u></u> -		
E1.0		-						-							RSS (
PLAT		-						-					<u> </u>		665g
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MHN_		19.2													668
02_15		ALL ALL													
16														-	
12378		3.0	.00	В				94.86 3	3.10						<u> </u>
200															
HOTC	General Remarks Hole terminated at 3.1m bgl due to reach of	2 —	ength	2.00~			ogged	By Rae Di	unn	Clie	ient Halebury	Homes	heet 1	of 1	
-S 2 F		A		_ .0011								Dete			
1901			viath	0.60m		G	ound	200 Level (m AC	ישר) 63	C0-	E 631373 N 145358	09-02-16 09-02-16	Trial H	lole N	lo.
TP	Shoring/Support:		Drientation	1		M	ethod/	Plant Used		Cor	ontractor	Scale			
3 WSF	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based	C	90 degr	ees from	n north	ו ו		360 Exc	avato	or	Geotechnical Engineering	1:21.3	TP	110	l.
õ	on visual and manual identification.		-												

	BRINCKERHOFF Unit 9. John Toto Pood				رج ک	V n2)	en n2) ier	Elev	Dep	pth		STRATA				
	Hertford, SG13 7NN Telephone: 01992 526 000	RIAL PIT LOG	Depth	Туре	IId IId	(kN/r	Vat (KN/r	(mAC	D) (Thicl	ck s)		Description	ı	Legend	Geology	Install / Backfill
	Project Whitfield	Job No 70012378	-						-	1	Grass over br fine to coarse	own very clayey slightly gravelly S angular to subangular flint. (TOPS	AND with rare flint cobbles. Grave SOIL)	I is $\frac{\sqrt{I_Z}}{I_Z} \frac{\sqrt{I_Z}}{\sqrt{I_Z}}$		
									-	·				<u> </u>	те	
			-						-					<u></u>		
			-					103.	79 0.0	.60				$\frac{I_2}{2}$ $\frac{\sqrt{I_2}}{2}$		
		The	-						-	-	Soft orangish I Gravel is fine t	brown slightly sandy slightly grave to coarse angular to subangular f	Ily CLAY with rare flint cobbles. int. (HEAD)		-	
			-						-						-	
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		and the second se	-1.00	ES					(1.10	0)					HD	
			-						-						-	
/16			-						-						-	
Т 15/3		A STATE OF S	-						-		1.50 Becoming	g stiff CLAY			-	
1.03.GD			-					102.	69 1.	.70	Recovered as	structureless CHALK composed	of white slightly sandy fine to coars	e	-	
PLATE			-						-		angular to sub with rare black	rounded GRAVEL with occasiona specks. (Seaford Chalk Formation)	l coarse flints. Gravel is weak white on, Grade Dc)	e li	-	
PETEM			2.00	ES					_						-	
PJ WS	1111 100 300		-						-						-	
ECN.G			-						-						-	
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TFIELD	C E Cart Mal		-						-						-	
15_WHI			-						-						-	
16_02_			-						-						-	
12378_			3.00	В				101.	29 3.	.10						
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2 PHOT	Hole terminated at 3.1 due to reach of excavator.	2►	Lengui	2.00m			20990		Rae Du	unn		Halsbury	/ Homes	1	of 1	
OG LS			Width	0.60			Groun	d Level	(m AOE	D) 87		Co-Ordinates (NGR)	Date 09-02-16	Trial F	lole N	0.
SP TP L	Shoring/Support: Stability: Notes: All dimensions in metres, Loos should be read in	¥ 0.0	Orientatio	n n			Metho	d/Plant	Used			Contractor	Scale			
08 W	accordance with the provided Key. Descriptions are based on visual and manual identification.	C	40 deg	grees fro	om nor	rth		3	60 Exca	avator	or	Geotechnical Engineering	1:21.3	18	111	

			ر ک	۲ الک الک	en er	Elev.	Depth	h	STRATA			
Hertford, SG137NN Telephone: 01992 526 000	Depth	Туре	IId IId	KN/r	Vat (kN/r	(mAOE) (Thick -ness)		Descriptio	n	Legend Geology	y Install Backfil
Project Job No	T						(0.00)	Grass over b	rown sandy CLAY. (TOPSOIL)			
Whitfield 70012378	_					98.9	- (0.20) 5 0.20				$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
	-							Soft orangish	brown slightly sandy CLAY with o	ccasional flint cobbles. (HEAD)		128
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MARK MARK	_2.00	ES					-					880
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ON O	-					96.8	5 2.30					1993
							- (0.20)	Gravel is wea	s structureless CHALK composed ak white with rare black specks. (So	of white slightly clayey GRAVEL. eaford Chalk Formation. Grade D		693
O C C C C C C C C C C C C C C C C C C C						96.6	5 2.50			···· , · ···		603
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2374												
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○ Hole terminated at 2.5 due to reach of excavator. 문		2.00m	ı			F	Rae Dunn	1	Halsbur	/ Homes	1 of 1	
S A											<u> </u>	
g T	Width				Groun	d Level (m AOD)		Co-Ordinates (NGR)	Date 08-02-16	Trial Hole N	NO
∐ Shoring/Support: D =+= ∞ B 0.6		0.60n	า				99.154		E 631369 N 145384	08-02-16		
Stability: Notes: All dimensions in metres. Logs should be read in	Orientatio	n			Metho	d/Plant L	sed		Contractor	Scale	TD444	、
≥ accordance with the provided Key. Descriptions are based	90 deç	grees fr	om nor	rth		36	0 Excava	itor	Geotechnical Engineering	1:21.3	IP112	-
					1				1		L	

Appendix E

LABORATORY RESULTS - GEOTECHNICAL



WSP Environmental Unit 9, The Chase John Tate Road Foxholes Business Park Hertford SG13 7NN

Attention: Ella Niehorster

CERTIFICATE OF ANALYSIS

Date:
Customer:
Sample Delivery Group (SDG):
Your Reference:
Location:
Report No:

09 March 2016 H_WSP_HER 160219-37 70012378 Whitfield 352717

This report has been revised and directly supersedes 352446 in its entirety.

We received 27 samples on Friday February 19, 2016 and 27 of these samples were scheduled for analysis which was completed on Tuesday March 08, 2016. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:

Sonia McWhan Operations Manager

Client Reference: 70012378

160219-37 H_WSP_HER-187

SDG:

Job:

CERTIFICATE OF ANALYSIS

Location: Whitfield Customer: WSP Environmental Attention: Ella Niehorster
 Order Number:
 70012378-S01

 Report Number:
 352717

 Superseded Report:
 352446

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
12956180	BH1	BLK	0.20 - 0.50	08/02/2016
12956178	BH1	BLK	0.50 - 0.80	08/02/2016
12956168	BH1	U100	1.20 - 1.65	08/02/2016
12956170	BH1	U100	10.20 - 10.65	09/02/2016
12956119	BH1	U100	4.20 - 4.65	08/02/2016
12956145	BH1	U100	7.20 - 7.65	08/02/2016
12956154	BH02	BLK	0.20 - 0.50	10/02/2016
12956176	BH3	U100	1.20 - 1.65	11/02/2016
12956172	BH3	U100	4.20 - 4.52	11/02/2016
12956122	IN01	BLK	1.50 - 1.60	10/02/2016
12956156	IN03	BLK	2.00 - 2.10	12/02/2016
12956159	IN04	BLK	2.00 - 2.10	12/02/2016
12956124	IN05	BLK	1.50 - 1.60	10/02/2016
12956138	IN06	BLK	1.50 - 1.60	11/02/2016
12956128	IN07	BLK	2.50 - 2.50	10/02/2016
12956131	IN102	BLK	2.50 - 2.60	11/02/2016
12956133	IN103	BLK	2.00 - 2.10	11/02/2016
12956161	IN104	BLK	2.50 - 2.50	11/02/2016
12956135	IN105	BLK	2.50 - 2.50	12/02/2016
12956126	IN106	BLK	2.00 - 2.10	12/02/2016
12956163	IN108	BLK	2.50 - 2.50	09/02/2016
12956165	IN109	BLK	2.50 - 2.50	12/02/2016
12956140	TP101	BLK	3.00 - 3.10	09/02/2016
12956182	WS3	BLK	1.00 - 1.10	10/02/2016
12956150	WS106	BLK	1.00 - 1.10	11/02/2016
12956148	WS107	BLK	0.40 - 0.50	11/02/2016
12956143	WS107	BLK	1.00 - 1.10	11/02/2016

Only received samples which have had analysis scheduled will be shown on the following pages.

ALcontrol Lab	oratories	CE	RT	FI	CA	٩T	E (OF	A	N	Al	_Y	SI	S											Va	lidated
SDG: 16 Job: H_ Client Reference: 70	0219-37 _WSP_HER-187 012378	Location Custom Attentio	n: er: n:	Whitfi WSP Ella N	ield Env Nieh	viron Iorste	mer er	ntal								O R S	ord ep up	er ori ers	Nu Ni Sed	mbe umb led f	er: er: Repor	70 35: t: 35:	012378 2717 2446	3-S01		
SOLID Results Legend X Test	Lab Sample	No(s)	12956178 12956180	12956170 12956168	12956119	12956154 12956145	12956176	12956122	12956159 12956156	12956124	12956138	12956131	12956133	12956135	12956126	12926163	12956140	12956182	12956148	12956143						
No Determinat Possible	ion Custome Sample Refe	er Frence	BH1	BH1	BH1	BH02 BH1	BH3	IN01	IN04	IN05	N00	IN102	IN104	IN105	IN106	UTN108	TP101	WS3	WS107	WS107						
	AGS Refere	ence	BLK	U100	U100	U100	U100	BLK	BLK	BLK	BI K	BLK	BLK	BLK	BLK		BLK	BLK		BLK						
	Depth (n	n)	0.50 - 0.80 0.20 - 0.50	10.20 - 10.65 1.20 - 1.65	4.20 - 4.65	0.20 - 0.50 7.20 - 7.65	4.20 - 4.32 1.20 - 1.65	1.50 - 1.60	2.00 - 2.10	1.50 - 1.60	2.50 - 2.50	2.50 - 2.60	2.00 - 2.10	2.50 - 2.50	2.00 - 2.10	2.50 - 2.50	3.00 - 3.10	1.00 - 1.10	1 00 - 1 10	1.00 - 1.10						
	Containe	er	Geolabs container Geolabs container	Geolabs container Geolabs container	Geolabs container	Geolabs container Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container	Geolabs container						
Geotechnical Testing*	All	NDPs: 0 Tests: 27	<mark>x</mark> x	x x	X	x x	x	<mark>(x</mark>	x x		x x	x	x >	(X	x	x x	x	X	x x	x						

CERTIFICATE OF ANALYSIS

Results Legend	Cu	stomer Sample Ref.	BH1	BH1	BH1	BH1	BH1	BH1
# ISO17025 accredited.								
aq Aqueous / settled sample.		Donth (m)	0.00 0.50	0.50, 0.00	4 00 4 05	40.00 40.05	4.00 4.05	7 00 7 05
diss.filt Dissolved / filtered sample.		Deptn (m) Sample Type	0.20 - 0.50 CooToch Soils	0.50 - 0.80 GooToch Soils	1.20 - 1.65 CooToch Soils	10.20 - 10.65 GooToch Soils	4.20 - 4.65 GooToch Soils	7.20 - 7.65 CooToch Soils
tot.unfilt Total / unfiltered sample. * Subcontracted test.		Date Sampled	08/02/2016	08/02/2016	08/02/2016	09/02/2016	08/02/2016	08/02/2016
** % recovery of the surrogate st	andard to	Sample Time						
check the efficiency of the met results of individual compound	hod. The	Date Received	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016
samples aren't corrected for th	e recovery	SDG Ref	100219-37	160219-37	160219-37	160219-37	160219-37	160219-37
(F) Trigger breach confirmed 1-5&+6@ Sample deviation (see appendi	ix)	Lab Sample No.(s)	BLK	BLK	U100	U100	U100	U100
Component	LOD/Unit	s Method						
Moisture Content (GEOTECH)*	-	SUB	See Attached					
Dissificit in the Architelt		0110			O Alle che d			
Plasticity Index 1 point*	-	SOR	See Attached		See Attached			
Coturated Maisture Content*		CLID			Coo Attoobod	Coo Attoohod	Can Attached	Cae Attached
Saturated Moisture Content	-	50B			See Allached	See Allacheo	See Allached	See Allached
DDE CD4 Estandad avitat		CLID	Cas Attached				Can Attached	
BRE SDT Extended suite	-	50B	See Allacheo				See Allached	
		0110		O Alle she d		O Alle chi a d		O All h l
WS Sulphate (GEOTECH)"	-	SUB		See Attached		See Attached		See Attached
		+						

CERTIFICATE OF ANALYSIS

Results Legend		Customer Sample Ref.	BH02	BH3	BH3	IN01	IN03	IN04
M mCERTS accredited.								
diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample.		Depth (m) Sample Type	0.20 - 0.50 GeoTech Soils	1.20 - 1.65 GeoTech Soils	4.20 - 4.52 GeoTech Soils	1.50 - 1.60 GeoTech Soils	2.00 - 2.10 GeoTech Soils	2.00 - 2.10 GeoTech Soils
* Subcontracted test. ** % recovery of the surrogate sta	andard to	Date Sampled Sample Time	10/02/2016	11/02/2016	11/02/2016	10/02/2016	12/02/2016	12/02/2016
check the efficiency of the met results of individual compound	hod. The Is within	Date Received	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016
samples aren't corrected for th (F) Trigger breach confirmed	e recovery	Lab Sample No.(s)	12956154	12956176	12956172	12956122	12956156	12956159
1-5&+§@ Sample deviation (see appendi	x)	AGS Reference	BLK	U100	U100	BLK	BLK	BLK
One Dimensional Consolidation*	-	SUB		See Attached				
Moisture Content (GEOTECH)*	-	SUB		See Attached			See Attached	
Plasticity Index 1 point*	-	SUB	See Attached				See Attached	
PSD Wet/Dry sieve*	-	SUB					See Attached	
Saturated Moisture Content*	-	SUB	See Attached		See Attached	See Attached		See Attached
CU Triaxial Effective stress	-	SUB		See Attached				
Single stage \$" WS Sulphate (GEOTECH)*	-	SUB					See Attached	See Attached
· · · · · ·		_						

CERTIFICATE OF ANALYSIS

Results Legend	Cust	omer Sample Ref.	IN05	IN06	IN07	IN102	IN103	IN104
# ISO17025 accredited.								
M mCERTS accredited.								
diss.filt Dissolved / filtered sample.		Depth (m)	1.50 - 1.60	1.50 - 1.60	2.50 - 2.50	2.50 - 2.60	2.00 - 2.10	2.50 - 2.50
tot.unfilt Total / unfiltered sample.		Sample Type	GeoTech Soils					
* Subcontracted test.	ot brebne	Date Sampled	10/02/2016	11/02/2016	10/02/2016	11/02/2016	11/02/2016	11/02/2016
check the efficiency of the met	hod. The	Data Received	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016
results of individual compound	ds within	SDG Ref	160219-37	160219-37	160219-37	160219-37	160219-37	160219-37
(F) Trigger breach confirmed	e recovery	ah Sample No (s)	12956124	12956138	12956128	12956131	12956133	12956161
1-5&+§@ Sample deviation (see appendi	ix)	AGS Reference	BLK	BLK	BLK	BLK	BLK	BLK
Component	LOD/Units	Method						
Moisture Content (GEOTECH)*	-	SUB					See Attached	
DCD Wat/Dry aioyo*		CLID					See Atteched	
FSD Wei/Dry sleve	-	306					See Allacheu	
Saturated Moisture Content*	-	SUB	See Attached	See Attached	See Attached	See Attached		See Attached
BRE SD1 Extended suite*	-	SUB		See Attached				
		005						

CERTIFICATE OF ANALYSIS

Results Legend	Cust	omer Sample Ref.	IN105	IN106	IN108	IN109	TP101	WS3
M mCERTS accredited.								
diss.filt Dissolved / filtered sample.		Depth (m) Sample Type	2.50 - 2.50 GeoTech Soils	2.00 - 2.10 GeoTech Soils	2.50 - 2.50 GeoTech Soils	2.50 - 2.50 GeoTech Soils	3.00 - 3.10 GeoTech Soils	1.00 - 1.10 GeoTech Soils
* Subcontracted test.	andard to	Date Sampled	12/02/2016	12/02/2016	09/02/2016	12/02/2016	09/02/2016	10/02/2016
check the efficiency of the met results of individual compound	hod. The Is within	Date Received	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016	19/02/2016
samples aren't corrected for th (F) Trigger breach confirmed	e recovery	SDG Ref ab Sample No.(s)	160219-37 12956135	160219-37 12956126	160219-37 12956163	160219-37 12956165	160219-37 12956140	160219-37 12956182
1-5&+§@ Sample deviation (see appendi	x)	AGS Reference	BLK	BLK	BLK	BLK	BLK	BLK
Moisture Content (GEOTECH)*	-	SUB		See Attached		See Attached		See Attached
Placticity Index 1 point*		<u>CI ID</u>	Soo Attachod	Soo Attachad				Soo Attachad
	-	300	See Allached	See Allacheu				See Allached
PSD Wet/Dry sieve*	-	SUB		See Attached				
Saturated Moisture Content*	-	SUB	See Attached		See Attached	See Attached	See Attached	
		CLID						Cas Attachad
WS Sulphale (GEOTECH)	-	SUB						See Allached

CERTIFICATE OF ANALYSIS

SDG:160219-37Location:WhitfieldOrder Number:70012378-S01Job:H_WSP_HER-187Customer:WSP EnvironmentalReport Number:352717Client Reference:70012378Attention:Ella NiehorsterSuperseded Report:352446

Results Legend	Cust	tomer Sample Ref.	WS106	WS107	WS107		
M mCERTS accredited.							
diss.filt Dissolved / filtered sample.		Depth (m)	1.00 - 1.10 CooToob Soilo	0.40 - 0.50 CooToob Soilo	1.00 - 1.10 CooToob Soilo		
tot.unfilt Total / unfiltered sample. * Subcontracted test.		Date Sampled	11/02/2016	11/02/2016	11/02/2016		
** % recovery of the surrogate st check the efficiency of the met	andard to hod. The	Sample Time	19/02/2016	19/02/2016	19/02/2016		
results of individual compound samples aren't corrected for th	ds within e recovery	SDG Ref	160219-37	160219-37	160219-37		
(F) Trigger breach confirmed 1-5&+6@ Sample deviation (see appendi	ix)	Lab Sample No.(s)	12956150 BLK	12956148 BLK	12956143 BLK		
Component	LOD/Units	Method					
Moisture Content (GEOTECH)*	-	SUB		See Attached	See Attached		
Plasticity Index 1 point*	-	SUB		See Attached	See Attached		
PSD Wet/Dry sieve*	-	SUB	See Attached				
BRE SD1 Extended suite*	-	SUB	See Attached				
WS Sulphate (GEOTECH)*		SUB			See Attached		

Client Reference: 70012378

SDG:

Job:

160219-37 H_WSP_HER-187

CERTIFICATE OF ANALYSIS

Location: Whitfield Customer: WSP Environmental Attention: Ella Niehorster

Order Number: **Report Number:** 352717 Superseded Report: 352446

70012378-S01

Validated

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
SUB	Subcontracted	Test		
¹ Applies to Solid samples only.	DRY indicates samples have been dried at 35°C.	NA = not applicable.		

6	ALcontrol Laboratories	
/		

 SDG:
 160219-37

 Job:
 H_WSP_HER-187

 Client Reference:
 70012378

CERTIFICATE OF ANALYSIS

Location:WhitfieldCustomer:WSP EnvironmentalAttention:Ella Niehorster

 Order Number:
 70012378-S01

 Report Number:
 352717

 Superseded Report:
 352446

Test Completion Dates

Lab Sample No(s)	12956119	12956145	12956168	12956170	12956178	12956180	12956154	12956172	12956176	12956122
Customer Sample Ref.	BH1	BH1	BH1	BH1	BH1	BH1	BH02	BH3	BH3	IN01
AGS Ref.	U100	U100	U100	U100	BLK	BLK	BLK	U100	U100	BLK
Depth	4.20 - 4.65	7.20 - 7.65	1.20 - 1.65	10.20 - 10.65	0.50 - 0.80	0.20 - 0.50	0.20 - 0.50	4.20 - 4.52	1.20 - 1.65	1.50 - 1.60
Туре	GEOTECH	GEOTECH	GEOTECH	GEOTECH	GEOTECH	GEOTECH	GEOTECH	GEOTECH	GEOTECH	GEOTECH
Geotechnical Testing*	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016

Lab Sample No(s)	12956156	12956159	12956124	12956138	12956128	12956131	12956133	12956161	12956135	12956126
Customer Sample Ref.	IN03	IN04	IN05	IN06	IN07	IN102	IN103	IN104	IN105	IN106
AGS Ref.	BLK									
Depth	2.00 - 2.10	2.00 - 2.10	1.50 - 1.60	1.50 - 1.60	2.50 - 2.50	2.50 - 2.60	2.00 - 2.10	2.50 - 2.50	2.50 - 2.50	2.00 - 2.10
Туре	GEOTECH									
Geotechnical Testing*	08-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016	08-Mar-2016	08-Mar-2016	07-Mar-2016	07-Mar-2016	07-Mar-2016

Lab Sample No(s)	12956163	12956165	12956140	12956182	12956150	12956143	12956148
Customer Sample Ref.	IN108	IN109	TP101	WS3	WS106	WS107	WS107
AGS Ref.	BLK						
Depth	2.50 - 2.50	2.50 - 2.50	3.00 - 3.10	1.00 - 1.10	1.00 - 1.10	1.00 - 1.10	0.40 - 0.50
Туре	GEOTECH						
Geotechnical Testing*	07-Mar-2016						





Qty

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4

Contract Number: 30090

Client's Reference: SDG 160219-37

Laboratory Report

Report Date: 04-03-2016

Client ALcontrol Laboratories Hawarden Business Park Manor Road Flintshire CH5 3US

Contract Title: Whitfield For the attention of: Alcontrol GSTL

Date Received: 26-02-2016 Date Commenced: 26-02-2016 Date Completed: 04-03-2016

Test Description

Moisture Content 1377 : 1990 Part 2 : 3.2 - * UKAS

Plasticity 1 Point Limit (ALC)

- * UKAS

PSD-Wet Sieve/Dry Sieve

1377 : 1990 Part 2 : 9.2 - * UKAS

Saturated Moisture Content (SMC)

CD SS 100mm single stage test on a 102 mm diameter Part 8 Continued specimen at one confining pressure, test duration four days.

- @ Non Accredited Test

One Dimensional consolidation	1
- * UKAS	

6 STAGE CONSOL

BRE Suite REDUCED SUITE SD1

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory. Approved Signatories:

Alex Wynn (Associate Director) - Benjamin Sharp (Contracts Manager) - Emma Sharp (Office Manager) Paul Evans (Quality/Technical Manager) - Vaughan Edwards (Managing Director)





Contract Number: 30090

Test Description	Qty
WS Sulphate - @ Non Accredited Test	7
Extra over items for test duration in excess of four days.	2
Disposal of Samples on Project	1

Notes: Observations and Interpretations are outside the UKAS Accreditation

- * denotes test included in laboratory scope of accreditation
- # denotes test carried out by approved contractor
- @ denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory. Approved Signatories:

Alex Wynn (Associate Director) - Benjamin Sharp (Contracts Manager) - Emma Sharp (Office Manager) Paul Evans (Quality/Technical Manager) - Vaughan Edwards (Managing Director)

Client ref:	SDG 160219-37
Location:	Whitfield
Contract Number:	30090

Hole Number	Sample Number	Туре	Depth (m)	Description of Sample*
BH02		В	0.20 - 0.50	Off white slightly clayey fine sandy CHALK.
BH1		В	0.20 - 0.50	Brown fine sandy silty clayey fine to coarse GRAVEL.
1N03		В	2.00 - 2.10	Off white slightly fine to coarse sandy clayey silty fine to coarse GRAVEL (chalk).
IN103		В	2.00 - 2.10	Brown slightly fine to coarse sandy fine to coarse gravelly SILT/CLAY with cobbles.
IN105		В	1.00 - 1.10	Off white fine sandy silty chalky CLAY.
IN106		В	2.00 - 2.10	Brown fine sandy silty CLAY.
IN109		В	1.10	Off white slightly clayey fine sandy CHALK.
WS107		В	0.40 - 0.50	Brown fine sandy silty CLAY.
WS107		В	1.00 - 1.10	Brown fine sandy silty CLAY.
WS3		В	1.00 - 1.10	Off white fine sandy silty chalky CLAY.
BH1		U	1.20 - 1.65	Off white slightly clayey fine sandy CHALK.
BH3		U	1.20 - 1.65	Orange brown sI fine sub-rounded gravelly fine sandy silty firm CLAY

Note: Results on this table are in summary format and may not meet the requirements of the relevant standards, additional information is held by the laboratory



For and behalf of GEO Site & Testing Services Ltd

Authorised By: Ben Sharp (Contracts Manager) Date: 9.3.16



TESTING 2788 Test Report: Method of the Determination of the plastic limit and plasticity index BS 1377 : Part 2 : 1990 Method 5

Client ref:	SDG 160219-37
Location:	Whitfield
Contract Number:	30090

Hole/			Moisture	Liquid	Plastic	Plasticity	%	
Sample	Sample	Depth	Content	Limit	Limit	Index	Passing	Remarks
Number	Туре	m	%	%	%	%	.425mm	
		l'	CI. 3.2	CI. 4.3/4.4	CI. 5.	CI. 6.		
BH02	В	0.20 - 0.50	25		NP		23	
BH1	В	0.20 - 0.50	15	1	NP	1	24	
1N03	В	2.00 - 2.10	21	ļ	NP	ļ	53	
IN103	В	2.00 - 2.10	18	ļ		ļ		
IN105	В	1.00 - 1.10	26	53	24	29	67	CH High Plasticity
IN106	В	2.00 - 2.10	26	47	24	23	100	CI Intermediate Plasticity
IN109	В	1.10	32	ļ		ļ		
WS107	В	0.40 - 0.50	25	47	23	24	100	CI Intermediate Plasticity
WS107	В	1.00 - 1.10	25	48	20	28	100	CI Intermediate Plasticity
WS3	В	1.00 - 1.10	29	55	26	29	73	CH High Plasticity
BH1	U	1.20 - 1.65	27	ļ	NP	ļ	24	
BH3	U	1.20 - 1.65	22	1		1		
		1		1		1		
		1		1		1		
		1		1		1		
		1		 		1		
	!	1	1	1	1 '	1		

Symbols:

NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.





For and behalf of GEO Site & Testing Services Ltd

Authorised By: Ben Sharp (Contracts Manager) Date: **9.3.16**





Particle Size Distribution Test BS 1377 Part 2:1990.

Wet Sieve, Clause 9.2

Client ref:	SDG 160219-37	Sample Number:				
Contract Number:	30090	Depth from (m):	2.00			
Hole Number:	INO3	Depth to (m):	2.10			
		Sample Type:	В			
Location:	Whitfield					
Description: Off white slightly fine to coarse sandy clayey silty fine to coarse GRAVE						



<u>Remarks:</u>

#- not determined



For and behalf of GEO Site & Testing Services Ltd

Authorised By: Ben Sharp (Contracts Manager)





Particle Size Distribution Test BS 1377 Part 2:1990.

Wet Sieve, Clause 9.2

Client ref:	SDG 160219-37	Sample Number:					
Contract Number:	30090	Depth from (m):	2.00				
Hole Number:	IN103	Depth to (m):	2.10				
		Sample Type:	В				
Location:	Whitfield						
Description:	Brown slightly fine to coarse sandy fine to coarse gravelly SILT/CLAY with cobbles						



Remarks: #- not determined



For and behalf of GEO Site & Testing Services Ltd

Authorised By: Ben Sharp (Contracts Manager)





Particle Size Distribution Test BS 1377 Part 2:1990.

Wet Sieve, Clause 9.2

Client ref:	SDG 160219-37	Sample Number:					
Contract Number:	30090	Depth from (m):	2.00				
Hole Number:	IN106	Depth to (m):	2.10				
		Sample Type:	В				
Location:	Whitfield						
Description:	Description: Brown slightly fine to medium sandy SILT/CLAY.						



<u>Remarks:</u>

#- not determined



For and behalf of GEO Site & Testing Services Ltd

Authorised By: Ben Sharp (Contracts Manager)





Particle Size Distribution Test BS 1377 Part 2:1990.

Wet Sieve, Clause 9.2

Client ref:	SDG 160219-37	Sample Number:				
Contract Number:	30090	Depth from (m):	1.00			
Hole Number:	WS106	Depth to (m):	1.10			
		Sample Type:	В			
Location:	Whitfield					
Description:	Brown slightly fine to coarse sandy SILT/CLAY.					



Remarks: #- not determined



For and behalf of GEO Site & Testing Services Ltd

Authorised By: Ben Sharp (Contracts Manager)







Unit 4 Heol Aur Dafen Ind EstateDafen Carmarthenshire SA14 8QN Tel: 01554 784040 01554 750752 Fax: 01554 770529 01554 784041 Web: www.geo.uk.com

Certificate of Analysis

Date:	03-03-16
Client:	Alcontrol
Our Reference:	30090-
Client Reference:	160219-37
Contract Title:	Whitfield
Description: (Total Samples)	11
Date Started:	29-02-16
Date Completed:	03-03-16
Test Procedures:	(B.S. 1377 : PART 3 : 1990 AND BRE CP2/79)
Notes:	

Solid samples will be disposed 1 month and liquids 2 weeks after the date of issue of this test certificate

Approved By:

Authorised Signatories:

Emma Williams Laboratory Office Manager

20

Dafydd Simon Laboratory Team Leader

DP Grand

Paul Evans Quality Manager

Contract No:	30090-
Client Ref:	160219-37
Location:	Whitfield
Date:	03-03-2016

Summary of Chemical Analysis (B.S. 1377 : PART 3 : 1990 AND BRE CP2/79)

			Sulphate Content SO3 (as SO ₄)		Chloride Content							
			Acid	Aqueous	Ground-	Soluble	Ground-	pH	Totai	Magnesium	Nitrate	Organic
Hole	Sample	Denth	Soluble	Extract	water	Chloride as	water	Value	Sulphur			9/6
Number	Number	Depth	Culubate	Culubata	water		Water		ourprior	- 0		-70
Number	Number	m	Sulphate	Sulphate		% equiv.		@25 C	%0	g/i	mg/i	
			as % SO ₄	as g/I SO ₄	g/l	NaCi	g/1					
			Clause 5.5.	Clause 5.5.	Clause 5.4.	Clause 7.3	Clause 7.2	Clause 9.				
BH1		0.20	0.07 (0.08)	<.01 (<.01)		NCP		7.99	0.04	<1	<10	
RH1	1	0.50										
		0.00		0.01(0.01)								
TN03		2.00		0.01(0.01)								
IN04		2.00		0.02 (0.02)								
IN06	1	1 50	0 07 (0 08)	< 01(001)		NCP		8 2 3	0.03	<1	< 10	
MC104		1.00				NCD		7.05	0.00	、1 .1	10	
VV3100		1.00	0.09 (0.10)	0.01 (0.02)		NCP		7.95	0.05	< 1	< 10	
WS107		1.00		<.01 (<.01)								
WS3		1.00		0.02 (0.02)								
RH1		10.20		< 01 (< 01)								
DIT		10.20	0 10 (0 10)			NCD		7 / 7	0.07	1	10	
BHT		4.20	0.10 (0.12)	0.01 (0.01)		NCP		1.07	0.00	<	< 10	
BH1		7.20		0.01 (0.02)								
	1			1								
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	i						1					
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				1								

NCP - No Chloride present

Method for Saturation Moisture Content of Chalk BS 1377 : Part 2 : 1990 Section 3.3

Client Ref:

Location :

Contract Number:

		Dep	oth	Moisture	Bulk	Dry	Saturation Moisture	
Borehole	Sample	(m	ו)	Content	Density	Density	Content	Remarks
Number	Number			%	Mg/m ³	Mg/m ³	%	
		From	to	Clause 3.2	Clause 7.2	Clause 7.2	Clause 3.3.6.	
BH02	1	0.20	0.50	25	1.71	1.36	36	
IN01	2	1.50	1.60	28	1.68	1.30	40	
IN04	3	2.00	2.10	29	1.71	1.32	39	
			1.60		1.60	4.00		
1N05	4	1.50	1.60	27	1.68	1.32	39	
IN06	5	1.50	1.60	32	1.65	1.25	43	
1100		2100	1.00		1.00	1120		
IN07	6	2.50		29	1.95	1.51	29	
IN102	7	2.50	2.60	30	1.64	1.27	42	
IN104	8	2.50		32	1.70	1.29	41	
IN105	9	2.50		27	1.68	1.32	39	
	10				4 74	4.00		
IN108	10	2.50		29	1./1	1.33	38	
TN109	1	2 50		32	1.65	1.25	43	
11105	-	2.50		52	1.05	1.25		
TP101	12	3.00	3.10	28	1.70	1.33	38	
BH1	13	1.20	1.65	22	1.57	1.29	40	
BH1	14	10.20	10.65	26	1.64	1.30	40	
BH1	15	4.20	4.65	19	1.49	1.25	43	



Emma Sharp - Office Manager Checked By 4/3/16 Date

Ben Sharp - Contracts Manager Approved By 4/3/16

Method for Saturation Moisture Content of Chalk BS 1377 : Part 2 : 1990 Section 3.3

Client Ref:

Location :

Contract Number:

		Dep	oth	Moisture	Bulk	Dry	Saturation Moisture	
Borehole	Sample	(m	ר)	Content	Density	Density	Content	Remarks
Number	Number			%	Mg/m ³	Mg/m ³	%	
		From	to	Clause 3.2	Clause 7.2	Clause 7.2	Clause 3.3.6.	
BH1	16	7.20	7.65	25	1.57	1.26	42	
BH3	17	4.20	4.52	31	1.50	1.14	51	



Emma Sharp - Office Manager Checked By 4/3/16 Date

Ben Sharp - Contracts Manager Approved By 4/3/16

Test Report: ONE DIMENSIONAL CONSOLIDATION

BS 1377 : Part 5 : 3 : 1990

Client ref:	SDG 160219-37		
Location:	Whitfield		
Contract Number:	30090		
Hole/Sample Number:	BH3		
Depth (m) :	1.20 - 1.65		
Sample Type:	U		

Initial Conditions		Pressure Range			Μv	Cv	Method of time fitting used
Moisture Content (%):	24		kPa		m2/MN	m2/yr	Cv Calculated using t90
Bulk Density (Mg/m3):	1.99	0	-	20	0.47	11.49	Nominal Laboratory Temperature
Dry Density (Mg/m3):	1.60	20	-	50	0.30	14.16	20'C
Voids Ratio:	0.654	50	-	100	0.20	17.27	Location of specimen with sample
Degree of saturation:	97.2	100	-	150	0.15	12.59	top
Height (mm):	19.74	150	-	200	0.13	4.75	Remarks:
Diameter (mm)	74.95	200	-	250	0.11	1.60	
Particle Density (Mg/m3)	2.65						
Assumed							



Issue No 1.2

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

	BH3
	12956177
m	1.20
	03/03/2016
	Undisturbed
	m

Description of Specimen

Orange brown sl fine sub-rounded gravelly fine sandy silty firm CLAY

Initial Specimen Conditions

-		
Height	mm	208.00
Diameter	mm	102.00
Area	mm ²	8171.28
Volume	cm ³	1699.63
Mass	g	3475.20
Dry Mass	g	2846.20
Density	Mg/m ³	2.04
Dry Density	Mg/m ³	1.67
Moisture Content	%	22
Specific Gravity	kN/m ³	2.65
(assumed/n	assumed	

Final Specimen Conditions

Moisture Content	%	23
Density	Mg/m ³	2.08
Dry Density	Mg/m ³	1.69

DP Grong

Checked and Approved By

GEO Site & Tecting Services Limited

Whitefield

03/03/16 Date

Client Ref 160219-37

Contract No

30090

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

Specimen Details

Borehole		BH3
Sample No.		12956177
Depth	m	1.2
Date		03/03/2016

Test Setup

•	
Date started	26/02/2016
Date Finished	02/03/2016
Top Drain Used	у
Base Drain Used	у
Side Drains Used	у
Pressure System Number	P2
Cell Number	C2

Saturation

Cell Pressure Incr.	kРа	100.00
Back Pressure Incr.	kРа	95.00
Differential Pressure	kРа	5.00
Final Cell Pressure	kРа	300.00
Final Pore Pressure	kРа	297.00
Final B Value		1.03

Consolidation

kРа	22.00
kРа	300.00
kРа	278.00
kРа	19.00
kРа	278.00
cm ³	1679.93
mm	207.20
mm ²	8108.14
m²/MN	0.04169
m²/yr.	107.30220
	kPa kPa kPa kPa cm ³ mm mm ² m ² /MN m ² /yr.

DP Grong

Checked and Approved By



Whitefield

03/03/16 Date

Client Ref

160219-37

Contract No

30090

Consolidated Undrained Triaxial Compression Test BS 1377 : Part 8 : 1990

Specimen Details			
Borehole		BH3	
Sample No.		12956177	
Depth	m	1.2	
Date		03/03/2016	

Consolidation Stage





DP Giong 03/03/16 Checked and Approved By Date **Client Ref** 160219-37 Whitefield **Contract No** GEO Site & Testing Services Limited 30090

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

Specimen Details			
Borehole		BH3	
Sample No.		12956177	
Depth	m	1.2	
Date		03/03/2016	

Shearing

Initial Cell Pressure	kРа	300	1
Initial Pore Pressure	kРа	278	
Rate of Strain	mm/min	2.2524	
Max Deviator Stress			
Axial Strain		5.671	
Axial Stress	kPa	79.459	
Cor. Deviator stress	kРа	76.357	
Effective Major Stress	kРа	99.357	
Effective Minor Stress	kРа	24.000	
Effective Stress Ratio		4.140	
s'	kРа	61.679	
t'	kРа	37.679	
Max Effective Priciple	Stress Ra	tio	
Axial Strain		1.419	
Axial Stress	kРа	59.089	
Cor. Deviator stress	kРа	58.939	
Effective Major Stress	kРа	74.939	
Effective Minor Stress	kРа	16.000	
Effective Stress Ratio		4.684	
s'	kPa	45.469	
t'	kРа	29.469	
Shear Resistance Angle	degs		
Cohesion c'	kPa		
		Unable to	provide Angles for a single stage test

DP Gions

Checked and Approved By

des and a section of the set of t

Whitefield

03/03/16 Date

Client Ref

NA NA

160219-37

Contract No

30090

Consolidated Undrained Triaxial Compression Test BS 1377 : Part 8 : 1990

Specimen Details	5	
Borehole		BH3
Sample No.		12956177
Depth	m	1.2
Date		03/03/2016

Shearing Stage





DP Grong 03/03/16 Checked and Approved By Date **Client Ref** 160219-37 Whitefield **Contract No** GEO Site & Testing Services Limited 30090

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

Specimen Details			
Borehole		BH3	
Sample No.		12956177	
Depth	m	1.2	
Date		03/03/2016	

Shearing Stage







30090

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

Specimen Details	6	
Borehole		BH3
Sample No.		12956177
Depth	m	1.2
Date		03/03/2016

Shearing Stage



DP Gians

Checked and Approved By



Whitefield

03/03/16 Date

> Client Ref 160219-37 Contract No 30090

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

Client ref:	160219-37
Location:	Whitefield
Contract Number:	30090
Hole Number	ВНЗ
Sample Number:	1E+07
Depth (m) :	1.20
Sample Type :	Specime n



POST TEST SPECIMEN

SPECIMEN SPLIT





Checked IChecked By

Date Approved:

DP Gronz

Approved By:

3,3,16
Summary of Laboratory Sample Descriptions

Hole Number	Sample Number	Туре	Depth (m)	Description of Sample*	
BH1		U	1.20-1.65	Weak low to medium density off white CHALK. Fractures very closely spaced <20mm occasionally infilled with off white soft silt and sand sized comminuted chalk (CIRIA GRADE C5)	
BH1		U	4.20-4.65	Low density off white STRUCTURELESS CHALK typically comperising sub angular fine to coarse gravel size fragments of chalk with off white soft silt and sand sized comminuted chalk (CIRIA GRADE Dc)	
BH1		U	7.20-7.65	Weak low to medium density off white CHALK. Fractures very closely spaced <20mm occasionally infilled with off white soft silt and sand sized comminuted chalk (CIRIA GRADE C5)	
BH1		U	10.20-10.65	Weak low to medium density off white CHALK. Fractures very closely spaced <20mm infilled with some off white soft silt and sand sized comminuted chalk (CIRIA GRADE C5)	
BH3		U	4.2-4.65	Weak medium density off white CHALK. Fractures very closely spaced <20mm occasionally infilled with off white soft silt and sand sized comminuted chalk and soft brown clay and occasional yellow staining on fracture surfaces (CIRIA GRADE C5)	

Note: Results on this table are in summary format and may not meet the requirements of the relevant standards, additional information is held by the laboratory

2/3/16

Date

Checked by

DP Grond

2/3/16

Approved by

Date



WHITFIELD

Deline & Techne Services Limited

Issue No. 1

Page 32 of 33

CERTIFICATE OF ANALYSIS

ALcontrol Laboratories

SDG 160219-37 H WSP HER-187 Job: Client Reference: 70012378

Whitfield Location: Customer: WSP Environmental Attention: Ella Niehorster

Order Number: 70012378-S01 Report Number: 352717 Superseded Report: 352446

Appendix

General

for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately

11. Results relate only to the items tested

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. Surrogate recoveries - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect

14. Product analyses - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except 20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

> 21. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

> 22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

> 23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. Tentatively Identified Compounds (TICs) are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before presevation was performed
§	Sampled on date not provided
•	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.
	300100

ASDESTOS

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005)

Asbe stos Type	CommonName
Chrysof le	White Asbestos
Amosite	Brow n Asbesbs
Cro d dolite	Blue Asbe stos
Fibrous Actinolite	-
Fib to us Anthop hyll ite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Appendix F

CBR/DCP RESULTS

AND THE REAL

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 1
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY with rare rootlets



TEST DETAILS						
date of test 10/02/2016			10/02/2016	remarks:		
surcharge n	nass (kg)		10			
moisture co	ntent (%)		28			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.22	1.7				
5.0	0.32	1.6				
			1.7		CONTRACT	CHECKED
CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration			onding to		31634	NP

AND REAL

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 104
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY with rare rootlets.



TEST DETAILS 10/02/2016 date of test remarks: surcharge mass (kg) 10 34 moisture content (%) RESULTS penetration force on calculated CBR of plunger plunger CBR value (mm) (kN) (%) (%) 2.5 0.19 1.4 0.25 5.0 1.3 CONTRACT 1.4 CHECKED 31634 NP CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration

BS.1377 : Part 9 : 1990

and a

CLIENT	WSP GROUP	BH/TP No.	CBR 105
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly CLAY with rare rootlets.



TEST DETAILS 10/02/2016 date of test remarks: surcharge mass (kg) 10 22 moisture content (%) RESULTS penetration force on calculated CBR of plunger plunger CBR value (mm) (kN) (%) (%) 2.5 0.32 2.4 0.44 5.0 2.2 2.4 CONTRACT CHECKED 31634 NP CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration

AND REAL

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 106
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY with rare rootlets.



TEST DE	TAILS					
date of test			10/02/2016	remarks:		
surcharge r	nass (kg)		10			
moisture co	ntent (%)		31			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.23	1.8				
5.0	0.35	1.8				
			1.8		CONTRACT	CHECKED
CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration			onding to		31634	NP

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 107
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY with rare rootlets.



TEST DETAILS 10/02/2016 date of test remarks: surcharge mass (kg) 10 27 moisture content (%) RESULTS penetration force on calculated CBR of plunger plunger CBR value (mm) (kN) (%) (%) 2.5 2.5 0.32 0.45 5.0 2.2 2.5 CONTRACT CHECKED 31634 NP CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 108
SITE	WHITFIELD	TEST DEPTH (m)	0.30





TEST DE	TAILS					
date of test			10/02/2016	remarks:		
surcharge n	nass (kg)		10			
moisture co	ntent (%)		26			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.51	3.8				
5.0	0.84	4.2				
			4.2		CONTRACT	CHECKED
CBR value take 2.50mm and 5.0	n is the higher of the 00mm penetration	e forces (%) corresp	onding to		31634	NP

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 109
SITE	WHITFIELD	TEST DEPTH (m)	0.30





TEST DE	TAILS					
date of test			11/02/2016	remarks:		
surcharge r	nass (kg)		10			
moisture co	ntent (%)		36			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.17	1.3				
5.0	0.31	1.6				
			1.6		CONTRACT	CHECKED
CBR value take 2.50mm and 5.0	n is the higher of the 00mm penetration	e forces (%) corresp	onding to		31634	NP

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BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 2
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY with rare rootlets.



5							
	TEST DE	TAILS					
	date of test			10/02/2016	remarks:		
5	surcharge r	nass (kg)		10			
	moisture co	ntent (%)		30			
5							
200	RESULT	S					
	penetration	force on	calculated	CBR			
	of plunger	plunger	CBR	value			
	(mm)	(kN)	(%)	(%)			
Ω.	2.5	0.17	1.3				
	5.0	0.21	1.1				
				1.3		CONTRACT	CHECKED
	CBR value take 2.50mm and 5.0	n is the higher of the	e forces (%) corresp	onding to		31634	NP

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 3
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY with rare rootlets.



TEST DETAILS 10/02/2016 date of test remarks: surcharge mass (kg) 10 25 moisture content (%) RESULTS penetration force on calculated CBR of plunger plunger CBR value (mm) (kN) (%) (%) 2.5 0.35 2.7 0.43 5.0 2.1 2.7 CONTRACT CHECKED 31634 NP CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration

A Real

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 4
SITE	WHITFIELD	TEST DEPTH (m)	0.30





TEST DE	TAILS					
date of test			09/02/2016	remarks:		
surcharge n	nass (kg)		10			
moisture co	ntent (%)		30			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.20	1.5				
5.0	0.31	1.5				
			1.5		CONTRACT	CHECKED
CBR value take 2.50mm and 5.0	n is the higher of the 00mm penetration	e forces (%) corresp	onding to		31634	NP



BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 5
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Brown slightly sandy slightly gravelly silty CLAY.



TEST DE	TAILS					
date of test			09/02/2016	remarks:		
surcharge r	nass (kg)		10			
moisture co	ntent (%)		28			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.47	3.6				
5.0	0.80	4.0				
			4.0		CONTRACT	CHECKED
CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration			onding to		31634	NP



BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 6
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly silty CLAY.



TEST DE	TAILS					
date of test			11/02/2016	remarks:		
surcharge n	nass (kg)		10			
moisture co	ntent (%)		26			
RESULT	S					
penetration	force on	calculated	CBR			
of plunger	plunger	CBR	value			
(mm)	(kN)	(%)	(%)			
2.5	0.17	1 3				
5.0	0.17	1.2				
			1.3		CONTRACT	CHECKED
CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration			l onding to		31634	NP

BS.1377 : Part 9 : 1990

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SHA Y

CLIENT	WSP GROUP	BH/TP No.	CBR 7
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Orangish brown slightly sandy slightly gravelly CLAY with rare rootlets.



	TEST DE	TAILS					
	date of test			09/02/2016	remarks:		
	surcharge r	mass (kg)		10			
	moisture co	ontent (%)		26			
	RESULT	S					
	penetration	force on	calculated	CBR			
	of plunger	plunger	CBR	value			
	(mm)	(kN)	(%)	(%)			
, 	2.5	0.26	20				
	5.0	0.38	1.9				
				2.0		CONTRACT	CHECKED
	CBR value take 2.50mm and 5.0	n is the higher of the	e forces (%) corresp	onding to		31634	NP

A Real

BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 8
SITE	WHITFIELD	TEST DEPTH (m)	0.30





TEST DETAILS 09/02/2016 date of test remarks: surcharge mass (kg) 10 25 moisture content (%) RESULTS penetration force on calculated CBR of plunger plunger CBR value (mm) (kN) (%) (%) 2.5 0.77 5.8 5.0 1.13 5.6 5.8 CONTRACT CHECKED 31634 NP CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration

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BS.1377 : Part 9 : 1990

CLIENT	WSP GROUP	BH/TP No.	CBR 9
SITE	WHITFIELD	TEST DEPTH (m)	0.30

DESCRIPTION Brown slightly sandy slightly gravelly silty CLAY with rare rootlets.



TEST DETAILS 10/02/2016 date of test remarks: surcharge mass (kg) 10 30 moisture content (%) RESULTS penetration force on calculated CBR of plunger plunger CBR value (mm) (kN) (%) (%) 2.8 2.5 0.37 0.52 5.0 2.6 2.8 CONTRACT CHECKED 31634 NP CBR value taken is the higher of the forces (%) corresponding to 2.50mm and 5.00mm penetration

Geotechnical Engineering Limited DYNAMIC CONE PENETROMETER TESTING



CLIENT WSP GROUP

SITE WHITFIELD

DATE 10 February 2016

150 Initial scale reading (mm) Datum bgl (mm) 50 scale penetration DCP no. of CBR depth bgl reading increment (mm/blow) blows (m) (%) (mm) (mm) **CBR (%)** 290 140 0.19 140 1.6 0 10 20 30 40 50 1 0 400 110 0.30 28 4 9.1 5 445 45 0.35 9 29.6 0.1 10 477 32 0.38 3 88.3 0.2 510 33 0.41 3 85.5 10 554 44 4 10 0.45 63.1 0.3 600 46 5 60.2 10 0.50 15 651 51 3 82.8 0.55 >> 0.4 15 731 80 0.63 5 51.5 5 785 54 0.69 11 24.4 0.5 880 5 95 0.78 19 13.4 5 0.6 1007 127 25 9.9 0.91 5 1130 123 1.03 25 10.2 Depth (m) 0.7 1220 17.3 6 90 1.12 15 5 1310 90 1.21 18 14.2 0.8 5 1390 80 1.29 16 16.1 5 1451 61 1.35 12 21.5 0.9 5 1519 68 1.42 14 19.1 5 1547 28 1.45 6 48.9 1.0 5 1580 41.1 33 1.48 7 1.1 5 1644 64 1.54 13 20.4 5 1752 108 1.65 22 11.7 1.2 5 1838 86 1.74 17 14.9 5 1970 132 1.87 26 9.5 1.3 5 2041 71 18.3 1.94 14 4 2100 59 2.00 15 17.6 1.4 1.5 1.6 1.7 1.8 1.9 2.0 Remarks:

CBR 10

CONTRACT CHECKED 31634 NP

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd. CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL

taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

Appendix G

INFILTRATION TEST RESULTS

WSP GROUP



TRIAL PIT

IN01

SITE Whitfield

CLIENT



and the same

CLIENT	WSP GROUP
SITE	Whitfield
DATE	08/02/2016



IN02

TEST 1 Time (minutes) LENGTH 2.30 m BREADTH 0.70 m 0 30 60 90 120 150 180 DEPTH 2.95 m 1.10 WATER LEVEL Dry 1.30 FILL LEVEL 1.28 m Depth to water (m) 1.50 75% full m³ V_{p75-25} 1.70 m² **a**_{p50} 1.90 t_{p75-25} min 2.10 2.30 25% full soil infiltration rate, f ms⁻¹ 2.50 Insufficient take to calculate infiltration rate. Minor sidewall failure at 5 minutes. TEST 2 Time (minutes) LENGTH m BREADTH m 50 100 150 200 250 0 1.00 DEPTH m WATER LEVEL m FILL LEVEL m 1.20 75% full Depth to water (m) m³ 1.40 V_{p75-25} m² a_{p50} 1.60 min t_{p75-25} 25% full 1.80 * x 10^{-*} ms⁻¹ soil infiltration rate, f 2.00 TEST 3 Time (minutes) LENGTH m 250 50 100 150 200 0 BREADTH m 1.00 DEPTH m WATER LEVEL m 1.20 75% full FILL LEVEL m **Depth to water (m)** 1.40 1.60 1.80 m³ V_{p75-25} m² a_{p50} min t_{p75-25} 25% full 1.80 soil infiltration rate, f * x 10^{-*} ms⁻¹ 2.00 CONTRACT Remarks Test carried out in general accordance with BRE 365 (2007). CHECKED 31634 СТ Test abandoned due to insufficient take.

Geotechnical Engineering Limited SOAKAWAY TEST



СТ

31634

CLIENT SITE DATE	WSP GROUP Whitfield 12/02/2016	TRIAL PIT INC)3
TEST 1			
LENGTH	2.45 m	Time (minutes)	
BREADTH	0.65 m	0 50 100 150 200 2	250
DEPTH	2.50 m	1.40 + + + + +	-
WATER LEVEL	Dry		
	1 52 m		

FILL LEVEL	1.53 m		Ê ^{1.60} ◆	
V _{p75-25}	0.77 m³			. <u> </u>
a _{p50}	4.60 m ²			
t _{p75-25}	min			•
soil infiltration ra	ate, f o calculate infiltratio	ms⁻¹ n rate	2.20	25% full
TEST 1	0.45 m		Time (minutes)	
	2.45 m			
BREADTH	0.65 m			100 120
	2.50 m		1.40	1
	1.52 m		1.60 +	75% full
	1.55 m		€	
V _{p75-25}	0.41 m ³			25% full
a _{p50}	3.21 m ²			
t _{p75-25}	33 min		bth	•
soil infiltration ra Calculated over de	epth range achieve	⁻⁵ ms ⁻¹ d for test.	2.40 -	
TEST 3			Time (minutes)	
LENGTH	m		0 50	
BREADTH	m		2.00	
	m			
	m		2.20 +	75% full
	111		Ē	
V _{p75-25}	m ³		2.40 +	
a _{p50}	m ²		≥ 2.60 +	
to 75 25	min		th 1	
בא-פיוק-ו			ä 2.80 +	25% full
soil infiltration ra	nte, <i>f</i>	ms⁻¹	3.00 -	
Remarks _{Tes}	t carried out in gen	eral accorda	ce with BRE 365 (2007).	

Insufficient time for three fillings.

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CLIENT	WSP GROUP
SITE	Whitfield
DATE	12/02/2016



IN04

TEOT 4		
	2 30 m	Time (minutes)
	2.30 III 0.65 m	
BREADTH	0.05 m	0 30 60 90 120 150 180 210 240
		1.40
	DIy 1.47 m	1.00
FILL LEVEL	1.47 111	Ê ^{1.60} † ◆ 75% full
	$a = \pi^3$	
V _{p75-25}	0.77 111	
a _{p50}	4.53 m ⁻	
t _{p75-25}	min	
		č 2.20 – 25% full
soil infiltration ration	te, <i>f</i> ms ⁻¹	2.40 +
Insufficient take to	calculate infiltration rate	
TEST 1		
LENGTH	2.30 m	Time (minutes)
BREADTH	0.65 m	0 20 40 60 80
DEPTH	2.50 m	1.50
WATER LEVEL	Dry m	
FILL LEVEL	1.47 m	
		E 170 - 75% tuli
V _{p75-25}	0.46 m ³	
9	3.30 m^2	
4p50	3.30	÷
t _{p75-25}	40 min	5 1.90 - <u>25% full</u>
		↓ ↓ ↓
	E 1	
soil infiltration ra	te, f 5.8x 10 ⁻⁵ ms ⁻¹	2 10
Calculated over de	epth range achieved for test.	2.10
TEST 3		Time (minutes)
LENGTH	m	0 50
BREADTH	m	2.00
DEPTH	m	
	m	2.20 - 75% full
FILL LEVEL	m	Ê
	3	5 2.40 +
V _{p75-25}	m	wat
a _{p50}	m ²	g 2.60 +
t _{p75-25}	min	ta
		2 .80 + 25% full
soil infiltration rat	te. f ms ⁻¹	3.00 +
Remarks Tar	corried out in general assort	
l est	camed out in general accorda	
		31634 CT

WSP GROUP



TRIAL PIT

IN05

SITE Whitfield

CLIENT





CLIENT SITE DATE	WSP GROUP Whitfield 11/02/2016			Т	RIAL PIT		IN06	
TEST 1 LENGTH			Time (n	ninutes)				
BREADTH	0.70 m	0	20	40	60	80	100	

BREADTH	0.70 m			0	20	40	60	80	100
DEPTH	1.95 m			0.90		+0			
WATER LEVEL	Dry								
-ILL LEVEL	0.98 m		Ê	1.10				750/	f11
	$a a a m^3$		ter (r		▲ . <u> </u>	<u> </u>	<u> </u>	75% 	- · _ ·
V _{p75-25}	0.93 m		wat	1.30 -	٠	•			
a _{p50}	5.27 m ⁻		, to	1.50 -		•			
p75-25	59 min		Dept	1.00		•	٠	25%	full
soil infiltration r	ate, <i>f</i> 5.0x10 ⁻	⁵ ms ⁻¹		1.70	_ · _ · _ ·	— · — · — ·			•
	275 m					Time (m	inutes)		
	0.70 m			0	20	40	60	80	100
OFPTH	1 95 m			0.90	20	40		00	
VATER LEVEL	Drv m								
FILL LEVEL	0.98 m			1.10 🕇 🔶				750/	full
			E)		.	_ · _ · _ ·	· _ · _ · _ ·	/5%	- ·
1.75.05	0.93 m^3		ater	1.30 -	•				
pro-25	5.00 m^2		Ň	4.50					
a _{p50}	5.27 [[]		th to	1.50 +		•			
p75-25	52 min		Dept	1.70			• • • • • • • • • • • • • • • • • • •	25%	full
soil infiltration rate, f 5.7x10 ⁻⁵ ms ⁻¹				1.90 -				•	
TEST 3	0.75					Time (n	ninutes)		
	2.75 M			0	20	40	60	80	100
	0.70 11		1						<u> </u>
	1 05 m			0.00	1				
	1.95 m Dry m			0.00	Ι		·	T	
	1.95 m Dry m 1.00 m		-	1.10	T		·	75%	
	1.95 m Dry m 1.00 m		Ű.	1.10	◆ · • - · - · -			75% 1	ull
FILL LEVEL	1.95 m Dry m 1.00 m 0.914 m ³		tter (m)	1.10 1.30	• - · •- · · -			75% 1	iull
P75-25	1.95 m Dry m 1.00 m 0.914 m ³ 5 200 m ²) water (m)	1.10 1.30	• • • • • • • • • • • • •			75% 1	iull
/p75-25 Ap50	1.95 m Dry m 1.00 m 0.914 m ³ 5.200 m ²		h to water (m)	1.10 1.30 1.50	• • • • - · - · -	_ · _ · _ ·		75% 1	ull
P75-25 p75-25 p75-25 p75-25	1.95 m Dry m 1.00 m 0.914 m ³ 5.200 m ² 45 min		Depth to water (m)	1.10	• • •	• •		75% f	iuli
FILL LEVEL /p75-25 Ap50 p75-25 Soil infiltration r	1.95 m Dry m 1.00 m 0.914 m ³ 5.200 m ² 45 min ate, f 1.0x 10	⁻⁵ ms ⁻¹	Depth to water (m)	1.10 1.30 1.50 1.70 1.70 1.90	•	• •	 •	25% fu	iuli
Varek Level (p75-25 Ap50 p75-25 soil infiltration ra Remarks Tes	1.95 m Dry m 1.00 m 0.914 m ³ 5.200 m ² 45 min ate, f 1.0x 10	⁻⁵ ms ⁻¹ eral accordar	Depth to water (m)	1.10 1.30 1.50 1.70 1.70 1.90 BRE 365	• . • · • · · · · · · · · · · · · · · ·	• •		75% 1 25% fu 	

WSP GROUP



TRIAL PIT

IN07

SITE Whitfield DATE 10/02/2016

CLIENT

